

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE <div style="text-align: center;">J</div>		PAGE OF PAGES <div style="display: flex; justify-content: space-between;"><div>1</div><div>4</div></div>	
2. AMENDMENT/MODIFICATION NO. <div style="text-align: center;">0002</div>		3. EFFECTIVE DATE <div style="text-align: center;">12-Mar-2004</div>		4. REQUISITION/PURCHASE REQ. NO. <div style="text-align: center;">W68SBV-4026-0994</div>		5. PROJECT NO.(If applicable)	
6. ISSUED BY WALLA WALLA DISTRICT,COE-G4P CONTRACTING DIVISION 201 N THIRD AVENUE WALLA WALLA WA 99362-1876		CODE <div style="text-align: center;">W912EF</div>		7. ADMINISTERED BY (If other than item 6) WALLA WALLA DISTRICT JANI LONG 509/527-7209 JANI.C.LONG@USACE.ARMY.MIL WALLA WALLA WA		CODE <div style="text-align: center;">W912EF</div>	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)				X		9A. AMENDMENT OF SOLICITATION NO. W912EF-04-R-0013	
				X		9B. DATED (SEE ITEM 11) 17-Feb-2004	
						10A. MOD. OF CONTRACT/ORDER NO.	
						10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) <b>TITLE: ICE HARBOR LOCK AND DAM 121KV CIRCUIT BREAKERS INSTALLATION</b>  It has been determined necessary and in the best interest of the Government to amend this solicitation to make the changes noted in the Summary of Changes.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				TEL: _____ EMAIL: _____			
15B. CONTRACTOR/OFFEROR  _____ (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA  BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED  12-Mar-2004	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

**SUMMARY OF CHANGES**

Please see attached pages for the following changes:

-Add Clause 52.236-4015 PARTNERING

-Revise Section 00800, Paragraphs 1.2, 1.3, and 1.4

-Revise Specifications Section 16050, Paragraphs 1.1f, 2.7.1, 3.2.1, 3.2.2, 3.2.3, and 3.10.1.

Offer due date remains unchanged.

-Replace the previous wage determination with the attached wage determination

## SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

The following have been added by full text:

QUESTIONS AND ANSWERS-AMEND 2

1. When will the ABB breaker drawings be available for the design of the interface with the existing controls and equipment?

**Response:** *The COE must approve the ABB breaker drawings before breaker manufacturing can begin. The initial submittal of those drawings should be received in a week or two. The final drawings should be available to the installation contractor in April.*

2. It is our understanding that the "Information Only" drawings shown in the listing found in clause 252.236-7001 are considered "contract drawings". What electronic drawing format will the government give these drawings to the Contractor?

**Response:** *The statement at the end of the drawing list in clause 252.236-7001 says contract drawings created on CADD will be available to the contractor in electronic form. It also says For Information Only drawings are not available on CADD. Information Only drawings, if requested by the contractor, will be available in tiff or cals raster electronic format.*

3. If the contract drawings are to be revised in accordance with clause 16050, 1.6.a, does the contractor have to redraw the non-CADD drawing into Microstation format, or can they be submitted in the same electronic format that they were given to the Contractor?

**Response:** *All drawings submitted as required by the submittal register, ENG FORM 4288 located at the end of section 01330, are to be hard copies. Submittal of all final approved versions of contractor prepared drawings are to be in electronic format as described in section 01330 paragraph 1.9.*

4. If modifications are necessary to the existing controls and equipment, who performs that work and provides the material? The specs are silent on this part of the work. The proposed interface has to be approved by the Corps through a drawing submittal. What if they return the drawings marked up with required revisions? Does that mean the Contractor has to do the extra work?

**Response:** *There are no changes anticipated in the Government's controls and equipment. The Contractor should design the interface to adapt the ABB breaker controls to the existing project controls. If the Government determines that changes to the existing controls and equipment are in the best interest of the Government, a modification to the contract will be pursued.*

## SECTION 00700 - CONTRACT CLAUSES

The following have been added by full text:

### 52.236-4015 PARTNERING

The Government intends to encourage the foundation of a cohesive partnership with the Contractor and its subcontractors. This partnership will be structured to draw on the strengths of each organization to identify and achieve reciprocal goals. The objectives are effective and efficient contract performance and intended to achieve completion within budget, on schedule, and in accordance with plans and specifications. This partnership would be bilateral in makeup, and participation will be totally voluntary. Any costs associated with effectuating this partnership will be agreed to by both parties and will be shared equally with no change in contract price. To implement this partnership initiative it is anticipated that within 60 days of Notice to Proceed the Contractor's on-site project manager and the Government's Resident Engineer would attend a one or two-day partnership development seminar/team building workshop together with the Contractor's key on-site staff and key Government personnel. Follow-up workshops of 1 or 2 days duration would be held periodically throughout the duration of the contract as agreed to by the Contractor and the Government.

## SECTION 00800 - SPECIAL CONTRACT REQUIREMENTS

The following have been modified:

### SPECIAL CONTRACT REQUIREMENTS

#### I 52.211-10 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)

I.1 The Contractor shall commence work under this contract within 10 calendar days after the date the Contractor receives the notice to proceed, prosecute the work diligently, and complete the entire work ready for use not later than the dates listed below.

1.2 Circuit breakers shall be installed during outages established by the Government. The Government will determine the order in which the circuit breakers will be taken out of service for replacement work. Only one breaker will be taken out of service at a time for installation work. The Government will require a 48 hour in-service run time after completion of installation and Contractor field testing and commissioning of each breaker. The next breaker will be made available for the Contractor after satisfactory completion of the 48 hour in-service run time. The first circuit breaker will be taken out of service and made available for the Contractor to start work on 6 July 2004. The Contractor shall complete the installation of all 7 circuit breakers including field testing by not later than 31 October 2004. This will allow the Contractor approximately 2 weeks to install each breaker.

1.3 The Contractor shall complete final cleanup and demobilization by not later than 15 calendar days after the completion date in 1.2.

1.4 The Contractor shall complete final submission of working "as-built" contract drawings (see Section 01010) and final approved versions of Contractor prepared drawings (see Section 01330) by not later than 30 calendar days after the completion date in 1.2.

(End of Clause)

(End of Summary of Changes)

SECTION 16050

IHCB0316050

MISCELLANEOUS ENGINEERING SERVICES, ELECTRICAL EQUIPMENT  
AND WORK FURNISHED BY THE CONTRACTOR

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SECTION 16050

MISCELLANEOUS ENGINEERING SERVICES, ELECTRICAL EQUIPMENT  
AND WORK FURNISHED BY THE CONTRACTOR

PART 1 GENERAL

1.1 GENERAL INFORMATION

This Section specifies the miscellaneous electrical equipment and work required to remove seven (7) existing 121 kV oil circuit breakers, install seven (7) Government-furnished 121 kV SF<sub>6</sub> gas circuit breakers, and perform commissioning of the installed circuit breakers. This Section also includes the requirements for Erecting Engineer services, if the Government chooses to exercise that option. Electrical equipment and site work includes but is not limited to the following for each circuit breaker:

a. Remove the control, instrumentation, power, and relaying wiring between the existing breaker control cabinets and the Government control panels and boards.

b. Remove the conduit between the existing breaker control cabinets and the conduit stub-ups on the transformer deck below the cabinets.

c. Remove the existing oil circuit breakers including oil, bushings and breaker tanks.

d. Install Government-furnished 121 kV SF<sub>6</sub> gas circuit breakers on existing foundations, including approved seismic anchoring.

e. Furnish and install new conduits from the existing transformer deck conduit stub-ups to the control cabinet of the new SF<sub>6</sub> gas circuit breakers.

f. Furnish and install four new molded-case air circuit breakers in the Government Unit Control Boards SU1, SU2 and SU3, and furnish and install the necessary equipment to convert one spare space in Unit Control Board SU2 for use as a 480V AC power source.

g. Furnish, install, and test new cables for control, relaying, and power for the Government-furnished circuit breakers. These cables shall replace the existing cables in destination, routing, and purpose, as described in the specifications and drawings.

h. Furnish and install new flexible expansion connectors to connect the 115kV tubular bus to the new circuit breaker. As necessary, furnish and install new 115kV tubular bus to enable connection between the Government-furnished circuit breakers and existing transformers and disconnect switches.

i. Perform breaker commissioning and field testing activities in accordance with the breaker manufacturer's recommendations.

j. Remove and dispose of circuit breaker oil including oil from the Project circuit breaker oil storage tank.

In addition, the Contractor shall perform the necessary engineering design to interface the breaker control schemes of the Government-furnished breakers with the Ice Harbor project breaker control schemes.

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI C2 (1999) National Electric Safety Code

ANSI C80-1 (1990) Rigid Steel Conduit-Zinc Coated

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM A 123 (1989a) Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products

ASTM A 153 (1987) Zinc Coating (Hot-Dip) on Iron and Steel Hardware

BUILDING OFFICIALS CODE ADMINISTRATORS INTERNATIONAL, INC. (BOCA)

IBC 2000 (2000) International Building Code

FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

FEMA 301 (1997) NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures

INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)

IEEE Std 383 (1992) Class 1E Electric Cables, Field Splices, and connections for Nuclear Power Generating Stations

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA FB 1 (1993) Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit and Cable Assemblies

NEMA WC 57 (1998) Control Cables

NEMA WC 70 (1999) Non-shielded Power Cables rated 2000 Volts or Less for the Distribution of Electrical Energy

NEMA WC 74 (2000) 5-46 kV Shielded power cable for Use in the Transmission and Distribution of Electric Energy

NEMA WD 6 (1988) Wiring Devices - Dimensional Requirements

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 70 (2002) National Electric Code

UNDERWRITERS LABORATORIES (UL)

UL 50 (1992) Enclosures for Electrical Equipment

UL 360 (1986) Liquid-Tight Flexible Steel Conduit

UL 514A (1993) Metallic Outlet Boxes

UL 514B (1993) Fittings for Conduit & Outlet Boxes

1.3 SUBMITTALS

Government approval is required for all submittals with a "GA" designation submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with SECTION 01330.

1.3.1 SD-01 Data

1.3.1.1 Electrical Equipment; GA

Within 30 calendar days after date of award:

Data and catalog cuts as required to indicate complete compliance with the contract specifications. All data and catalog cuts shall include the project name, and contract number. As a minimum, data and catalog information shall be submitted for the following:

- a. Conduit
- b. Expansion type bus connectors
- c. Wire and Cable

Submit cable manufacturer's data for approval including dimensioned sketches of multiple-conductor 600-volt cables showing cable construction, and sufficient additional data to demonstrate compliance with these specifications.

- d. Wire Markers

Furnish a written certificate from an approved independent testing laboratory to indicate that the markers will not stain or discolor after 20 years service when subjected to an accelerated aging test while in contact with wire insulating materials. Identification on tags and markers shall be as shown on the drawings or as directed.

1.3.2 SD-04 Drawings

1.3.2.1 Electrical Schematic and Connection diagrams; GA

Within 60 calendar days after date of award, schematic and connection drawings of all equipment to be furnished or installed under this contract. Drawings shall clearly show outline dimensions (where applicable), complete control schematics, wiring numbers and connections necessary to interface existing project equipment and control/alarm schemes with the Government-furnished circuit breakers.

1.3.2.2 Seismic anchoring diagrams; GA

Sixty (60) days prior to the start of breaker installation work, design work of the seismic anchorage system, including drawings, calculations, and materials to be used shall be submitted.

1.3.3 SD-07 Schedules and Plans

1.3.3.1 Breaker Installation Plan; GA

Sixty (60) days prior to the start of breaker installation work, the Contractor shall submit a detailed plan for installing the breakers.

1.3.3.2 Spill Containment Plan; GA

The Contractor shall submit a plan for prevention of spills and for containment of any spills of circuit breaker oil. Plan shall list the equipment proposed for use and all actions to prevent spills.



#### 1.3.4 SD-08 Statements

##### 1.3.4.1 Breaker Functional Test Procedure; GA

Thirty (30) days prior to the breaker functional testing, the Contractor shall submit a plan for testing the installed breaker to ensure the breaker has been assembled, installed, and adjusted to perform according to the manufacturer's recommendations.

##### 1.3.4.2 Breaker Commissioning Test Procedure; GA

Thirty (30) days prior to the breaker commissioning testing, the Contractor shall submit a plan for testing the proper operation of the breaker control and annunciation, interlocks and permissives, according to the manufacturer's recommendations. The plan shall also include testing for proper polarity and phase rotation for all current transformer connections. The testing will include "in-service" checks of phase current measurements after the new breaker has been energized.

##### 1.3.4.3 Erecting Engineer's Qualifications; GA

The Contractor shall submit the qualifications for the erecting engineer(s).

**NOTE:** Qualifications for erecting engineer(s) shall be submitted by not later than 15 calendar days after date of Notice to Proceed whether or not Optional Item No. 0010 in the Bid Schedule, Section 00010 has been exercised.

#### 1.3.5 SD-09 Reports

##### 1.3.5.1 Wire and Cable Factory Tests, Inspections, and Verifications; GA

Thirty (30) days prior to shipping any wire and cable, submit certified copies of test reports including test results. Lot number and reel or coil number of wire and cable tested shall be indicated on the test reports.

##### 1.3.5.2 Wire and Cable Field Tests; GA

Within 30 days of completing tests, the Contractor shall submit certified copies of test reports including test results. No wire or cable shall be energized until authorized by the Government Quality Assurance Representative (GQAR). Circuit number and location for each cable tested shall be indicated on the test reports.

##### 1.3.5.3 Breaker Functional Tests; GA

Within 30 days of completing tests, submit certified copies of the reports. Reports shall include summary of tests performed, a list of all tests and results of such tests. The report shall also include a complete listing of all test set-up parameters, equipment status including control systems functional changes, non-functioning equipment or cables. Reports of all witness tests shall be signed by the witnessing representatives of the Contractor and the Contracting Officer.

##### 1.3.5.4 Breaker Commissioning Tests; GA

Within 30 days of completing tests, submit certified copies of the reports. Reports shall include summary of tests performed, a list of all tests and results of such tests. The report shall also include a complete listing of all test set-up parameters, equipment status including control systems functional changes, non-functioning equipment or cables. Reports of all witness tests shall be signed by the witnessing representatives of the Contractor and the Contracting Officer.

#### 1.4 GENERAL REQUIREMENTS

##### 1.4.1 Materials, Equipment and Installation

Furnish new and unused materials and equipment and any defective material or equipment damaged in the course of installation shall be replaced or repaired. The installation shall be in accordance with the National Electrical Code, NFPA 70, and the National Electrical Safety Code, ANSI C2, except where otherwise specifically shown or specified, in which case the drawings and specifications shall govern. Omission of details on the drawings or in the specifications shall not be construed as permitting deviations from Code requirements.

##### 1.4.2 Standard Products

Material and equipment shall be the standard products of manufacturers regularly engaged in the manufacture of these products and shall essentially duplicate items that have been in satisfactory use for at least 2 years prior to bid opening.

##### 1.4.3 Corrosion Prevention

All equipment shall be protected to prevent deterioration from corrosion. The general requirements are specified below; however, other corrosion-resisting treatments that are the equivalent of those specified may be used.

###### 1.4.3.1 Fastenings and Fittings

Screws, bolts, nuts, pins, studs, springs, washers and other miscellaneous fastening and fittings shall be of corrosion-resistant material or shall be treated in an approved manner to render them resistant to corrosion. All fastenings which are to be exposed directly to the weather shall be of corrosion-resisting material.

###### 1.4.3.2 Corrosion-Resisting Materials

Corrosion-resisting steel, copper, brass, bronze, copper-nickel-copper alloys are acceptable corrosion-resisting materials.

###### 1.4.3.3 Corrosion-Resisting Treatments

Treatments shall be in accordance with ASTM A 123 or ASTM A 153.

###### 1.4.3.4 Finish

Final painting shall be done in accordance with manufacturer's standard practice.

#### 1.5 SEISMIC DESIGN REQUIREMENTS

The circuit breaker shall be anchored to the existing powerhouse reinforced concrete deck. The anchorage system shall be designed assuming the concrete deck has an  $f'c = 3000$  psi. The anchorage system shall be designed to resist wind or seismic force, whichever governs in accordance with IBC 2000 or FEMA 302. Friction resistance shall be neglected for purposes of the seismic anchor design. The design work of the anchorage system shall be performed, and the submittal (including details, specifications, and calculations) shall be stamped by a professional civil or a structural engineer who is currently registered in the state of Washington. Approval will not constitute an acceptance of the design or assign any responsibility for errors made by the Contractor to the Government.

#### 1.6 CONTRACT DRAWINGS

a. General. The contract drawings indicate the work to be accomplished in as much detail as is practical. Except for such modifications as may be required to interface the project breaker control schemes with the Government-furnished circuit breaker control, they constitute the working drawings for construction, installation, and for purchase of required materials. The Contractor shall field verify all existing dimensions, details, and features relevant to requirements for equipment, apparatus, and other powerhouse coordinating features required for the installation of the circuit breakers.

b. Departures from Drawings. If departures from the contract drawings are deemed necessary, details of such departures and reasons for them shall be submitted not later than 30 days before scheduled installation date. No such departures shall be made without prior written approval. The control schemes shown on the contract drawings are not intended to exclude the Contractor's method for accomplishing the functions indicated. However, if any alternate equipment is approved, the Contractor shall bear the cost and be responsible for furnishing and installing any additional wiring devices that are required.

## 1.7 NOTIFICATIONS

### 1.7.1 Notify GQAR

The following notification shall be given to the GQAR within the time specified before its occurrence. Formal written notification to the GQAR will not be required. Allow the GQAR a sufficient number of working days advance notice so the GQAR can make arrangements to witness the work or make the inspections.

(1) Fourteen (14) days prior to the start of any breaker testing, the Contractor shall notify the GQAR so that arrangements can be made for Government (HDC) personnel to witness the testing.

## PART 2 PRODUCTS

### 2.1 CONDUIT

#### 2.1.1 Rigid Steel

Rigid steel conduit shall conform to ANSI C80.1 and shall be zinc-coated both inside and outside by hot-dip galvanizing method.

#### 2.1.2 Flexible Steel

Flexible conduit shall conform to UL 360, shall have a hot-dip galvanized steel core, copper ground wire and a waterproof extruded PVC cover.

#### 2.1.3 Fittings

Fittings for rigid conduit shall be threaded and conform to UL 514B. Fittings for flexible conduit shall conform to UL 514B.

#### 2.1.4 Expansion Fittings

Expansion fittings shall be weatherproof, with an internal bonding assembly and shall provide at least 4 inches of conduit movement.

### 2.2 INSULATED WIRE AND CABLE

#### 2.2.1 General

All wire and cable used for power, control, and relaying systems shall be provided and shall conform to the requirements specified herein, including

conductor size, stranding, number of conductors, rated circuit voltage, and cabling, for each type of service. Wire and Cable shall be as indicated on the drawings, or as specified under the detailed requirements of these specifications for the particular construction or use.

#### 2.2.2 Wire and Cable Schedule

Wire and cable shall be furnished in accordance with the Conduit and Cable Schedule, and as indicated on the reference drawings. Existing quantities listed in the Conduit and Cable Schedules are approximate.

#### 2.2.3 Governing Standards

Materials, construction and tests, unless otherwise specified, shall conform to the applicable requirements of NEMA WC 70 and NEMA WC 74. The referenced parts only of IEEE Standard 383 form a part of this specification.

#### 2.2.4 Rated Circuit Voltages

Wire and cable for circuits operating at 600 volts and below shall have minimum rated circuit voltages in accordance with Table 3.1 of NEMA WC 70.

#### 2.2.5 Conductors

a. Material. Conductors shall conform to all the applicable requirements of Section 2 of NEMA WC 70 or Section 2 of WC 74 as applicable, and shall be annealed copper. Copper conductors may be bare, or tin- or lead-alloy-coated, if required by the type of insulation used.

b. Size. Minimum wire size shall be No. 12 AWG for power circuits; No. 14 AWG for relaying and control circuits; and No. 16 AWG for annunciator circuits.

c. Stranding. Conductor stranding classes cited herein shall be as defined in Appendix G of NEMA WC 70 and Appendix H of NEMA WC 74, as applicable. Lighting conductors No. 10 AWG and smaller shall be solid or have Class B stranding as defined in Table 1 of ASTM B 8. Any conductors used between stationary and moving devices, such as hinged doors or panels, shall be Class H or K stranding. All other conductors shall have class B or C stranding, except that conductors shown on the drawings, or in the schedule, as No. 12 AWG may be 19 strands of No. 25 AWG, and conductors shown as No. 10 AWG may be 19 strands of No. 22 AWG.

#### 2.2.6 Insulation

a. Insulation Voltage Rating and Insulation Level. The rated voltage of the insulation shall be 600 volts for all circuits operating below 2,000 volts, with 100 percent insulation level.

b. Insulation Material. Insulation shall be cross-linked-thermosetting-polyethylene (XLPE) type or an ethylene-propylene-rubber (EPR) type meeting the requirements of Section 3 of NEMA WC 70, or Section 4 of NEMA WC 74, as applicable. Polyvinyl chloride (PVC) insulation will not be accepted.

c. Insulation Thickness. The insulation thickness for single-conductor cables and single conductors of multiple-conductor control cables used for control and related purposes rated below 2,000 volts shall be as required by Section 3 of NEMA WC 70.

#### 2.2.7 Jackets

All cables shall have jackets meeting the requirements of Section 4.1 of NEMA WC 70, or Section 7.1 of NEMA WC 74, as applicable, and as specified herein.

Individual conductors of multiple-conductor cables shall be required to have jackets only if they are necessary for the conductor to meet other specifications herein. Jackets of single-conductor cables and of individual conductors of multiple-conductor cables, except for shielded cables, shall be in direct contact and adhere or be vulcanized to the conductor insulation. Multiple-conductor cables and shielded single-conductor cables shall be provided with a common jacket, which shall be tightly and concentrically formed around the core. Repaired jacket defects found and corrected during manufacturing are permitted if the cable, including the jacket, afterward fully meets these specifications and the requirements of the applicable standards.

a. Jacket Material. The jacket shall be one of the materials listed below, in accordance with the applicable paragraphs of NEMA WC 70 and NEMA WC 74. Polyvinyl chloride compounds will not be permitted. Variations from the materials required below will be permitted only if approved for each specific use, upon submittal of sufficient data to prove that they exceed all specified requirements for the particular application.

- (1) Neoprene, heavy-duty black.
- (2) Chlorosulfonated polyethylene, heavy-duty.
- (3) Chlorinated polyethylene, cross-linked, heavy-duty.

b. Jacket Thickness. The minimum thickness of the jackets at any point shall be not less than 80 percent of the respective nominal thickness specified below:

(1) Thickness of the jackets of the individual conductors of multiple-conductor cables shall be as required by Section 4.1 of NEMA WC 70, and shall be in addition to the conductor insulation thickness required by Section 3 of NEMA WC 70 for the insulation used. Thickness of the outer jackets or sheaths of the assembled multiple-conductor cables shall be as required by Section 4.1 of NEMA WC 70.

(2) Single conductor cables, if nonshielded, shall have a jacket thickness as specified in Section 4.1 of NEMA WC 70. If shielded, the jacket thickness shall be in accordance with the requirements of Section 4.1 of NEMA WC 70, or Section 7.1 of NEMA WC 74, as applicable.

#### 2.2.8 Identification

Only one color-code method shall be used for each cable construction type. Colored braids will not be permitted. Control cable color-coding shall be in accordance with Appendix E of NEMA WC 57. Power cable color-coding shall be black for Phase A, red for Phase B, blue for Phase C, white for grounded neutral, and green for an insulated grounding conductor, if included.

#### 2.2.9 Cabling

Individual conductors of multiple-conductor cables shall be assembled with flame and moisture-resistant fillers, binders, and a lay conforming to Part 5 of NEMA WC 57, or Section 5 of NEMA WC 70, as applicable, except that flat twin cables will not be permitted. Fillers shall be used in the interstices of multiple-conductor round cables with a common covering where necessary to give the completed cable a substantially circular cross section. Fillers shall be of a non-hygroscopic material, compatible with the cable insulation, jacket, and other components of the cable. The rubber filled or other approved type of binding tape shall consist of a material that is compatible with the other components of the cable and shall be lapped at least 10 percent of its width.

#### 2.2.10 Dimensional Tolerance

The outside diameters of single-conductor cables and of multiple-conductor cables shall not vary more than 5 percent and 10 percent, respectively, from the manufacturer's published catalog data.

#### 2.2.11 Flame Tests

All multiple-conductor and single-conductor cable assemblies shall pass the IEEE Standard 383 flame tests, paragraph 2.5, using the ribbon gas burner. Single-conductor cables and individual conductors of multiple-conductor cables shall pass the flame tests of Part 3 of NEMA WC 57, Section 6 of NEMA WC 70, or Section 7.1 of NEMA WC 74, as applicable. If such tests, however, have previously been made on identical cables, these tests need not be repeated. Instead, certified reports of the original qualifying tests shall be submitted.

#### 2.2.12 Packaging and Marking

The cables shall be furnished one length to a reel or coil. Each length, and the outside of each reel or coil, shall be plainly marked or tagged to indicate the cable length, voltage rating, conductor size, and manufacturer's lot number and reel number. Cables for exclusively dc applications shall be identified as such. Reels shall remain the property of the Contractor.

### 2.3 GROUNDING

Ground connections shall be exothermic or compression type. Solder type connectors shall not be permitted. Exothermic connections and taps shall be made by molded powdered metal weld similar and equal to "Cadweld" electrical connection. Compression type connections shall be made with connectors and full cycle hydraulic tools similar and equal to those used in Burndy "Hyground" system. Approved corrosion inhibiting joint compound shall be applied to all compression type connections. Ground conductors shall be bare unless routed along with the phase conductors in a motor feeder circuit. The ground conductors shall be soft, or medium hard drawn Class A or Class B stranded copper cables. One new grounding conductor shall be installed from each new gas circuit breaker to the existing embedded ground grid connection pad and shall be bolted to the ground grid connection pad.

### 2.4 115KV BUS AND CONNECTORS

#### 2.4.1 Bus Material

If additional tubing is required for the 115kV bus modifications to properly connect the circuit breakers to the existing transformers and vertical disconnect switches, it shall be furnished by the Contractor and shall match the existing bus. The existing bus is round, Schedule 40, 1¼ inch IPS aluminum tubing, alloy 6063-T6.

#### 2.4.2 Connectors

The Contractor shall provide flexible expansion type connectors to connect between the 1¼ inch IPS aluminum bus and the breaker bushing test terminals furnished by the Contractor with the Government-furnished circuit breakers. The connectors shall be rated a minimum of 2000A continuous current without exceeding a hot spot temperature rise of 65°C in an ambient air temperature of 40°C.

### 2.5 POWER FACTOR TEST TERMINALS

The Contractor shall supply a power factor test terminal for the upper terminal of each bushing on each circuit breaker. The power factor test terminal shall consist of a porcelain insulating structure with upper and lower terminals, disconnecting links and a guard ring, and test equipment attachment eyes, to allow power factor testing of the circuit breaker's

insulation with a 10 kV test set. The power factor test terminal's upper terminal shall be a standard flat tang, copper or bronze, minimum four inches wide, 5/8-inch thick, with four holes in a 1¼-inch square pattern, maximum hole diameter 9/16-inch, in accordance with NEMA Pub. No. CC 1, oriented with the flat face vertical. The power factor test terminal shall be a Lapp Insulator Company Doble Test Terminal, or approved equal. Each power factor test terminal shall have ample capacity to carry continuously, without overheating, the rated current of the bushing to which it is connected. All contact surfaces of external terminals shall be silver-plated.

## 2.6 NAMEPLATES AND ESCUTCHEONS

Identifying nameplates are in additions to manufacturer's nameplates and shall be made of 1/6-inch thick laminated sheet plastic or of 1/32-inch thick anodized aluminum engraved to provide white letters on a black background. All nameplates shall be fastened to enclosures in proper positions with black finished round-head screws. In general, each push-button station or control switch shall be provided with an identifying nameplate in addition to an escutcheon plate to show operating position as shown. Nameplate labels for cabinets shall be as shown, or as indicated by the Government when the Contractor's data is submitted for approval. Designations may be changed when shop drawings are submitted for approval.

## 2.7 AIR CIRCUIT BREAKERS (MOLDED-CASE TYPE)

### 2.7.1 General

The Contractor shall supply four new molded-case air circuit breakers to make ready three spare cubicles and convert one spare space in Ice Harbor Unit Control Boards SU1, SU2, and SU3 for use as the auxiliary power supply to 121kV breakers XW0, XW1, XW2, and XW3. The Contractor shall install the necessary air circuit breakers to convert each spare compartment for such use. The Contractor shall include the proposed breaker size on the electrical schematic drawings submitted for Government approval required in section 1.3.2.1.

### 2.7.2 Air Circuit Breakers

The molded-case circuit breakers shall conform to the applicable requirements of NEMA Pub. No. AB1, shall be fully rated, and shall have voltage ratings and interrupting ratings hereinafter stated. The circuit breakers shall be manually operated with a trip-free operating mechanism of the quick-make, quick-break type. All poles of each breaker shall be operated simultaneously by means of a common handle and shall be enclosed in a common molded plastic case. The contacts of multipole breakers shall be open simultaneously when the breaker is opened. The operating handles shall clearly indicate whether the breakers are in "ON", or "OFF", or "Tripped" position. Mechanical pressure type terminal lugs shall be provided. The circuit breakers shall be of the automatic type provided with combination thermal inverse-time overload and instantaneous magnetic trip units. The instantaneous magnetic trip units shall be set at approximately ten times the continuous current rating of the circuit breaker. The minimum frame size shall be 600 amperes. The circuit breakers shall be rated 600 volts ac, and shall have a minimum NEMA interrupting capacity of 22,000 amperes at 600 volts ac.

## 2.8 TOOLS AND ACCESSORIES

### 2.8.1 General

The Contractor shall supply the following tools and accessories for use in testing and commissioning the Government-furnished circuit breakers. All tools and accessories provided shall become the property of the Government.

### 2.8.2 Breaker Travel Transducers

Two time-travel recorder transducers for use in circuit breaker testing, compatible with Programma or Doble Engineering Company's Circuit Breaker Motion Analyzer.

#### 2.8.3 SF<sub>6</sub> Leak Detector

One SF<sub>6</sub> gas leak detector (TIF Instruments TIF5500 or similar and equal).

### PART 3 EXECUTION

#### 3.1 REMOVAL OF EXISTING EQUIPMENT

##### 3.1.1 Oil Circuit Breakers

The Government will drain the existing circuit breaker oil to the project's Circuit Breaker Oil tank. The Government will pump the breaker oil from the tank to a manifold near the Railroad door. The Contractor shall provide labor and equipment to receive the insulating oil from the circuit breaker oil tank and is responsible for disposal of the oil in accordance with local, state, and federal regulations. The existing circuit breakers must be drained of oil before they can be removed. The Contractor shall either remove each of the oil circuit breakers as a complete unit, including bushings and the breaker base frame, or, after removing the bushings, separate the circuit breaker into three individual tanks. Each tank weighs approximately 5,400 pounds. The Government will remove fire suppression sprinkler piping, as needed, in the vicinity of the existing oil circuit breakers. The Contractor shall coordinate requests for the removal of any needed sprinkler piping with the Government.

##### 3.1.2 Existing Conduit and Cable

The power, control, and relaying cables connected to the existing circuit breakers and their associated conduits shall be removed. Removed materials become the property of the Contractor. After the Government-furnished circuit breakers are installed, new conduits shall be installed between the existing conduit stub-ups and the Government-furnished breakers. New cables shall then be installed to reconnect the existing plant equipment to the Government-furnished circuit breakers. The new conduits and cables shall replace those removed in kind.

##### 3.1.3 Circuit Breaker Oil

Quantity of oil in the circuit breaker system is as follows:

There is 650 gallons of oil in each phase/tank (3 tanks per breaker) for a total of 1950 gallons of oil per breaker. Total of 13,650 gallons of oil in all seven breakers.

Storage tank holds 4,500 gallons of oil.

Grand total of 18,150 gallons of oil in all seven breakers and the storage tank. This does not include the quantity of oil in the pipelines connecting the tanks.

The oil in the circuit breaker system was sampled and tested for PCB's and for halogens. Test results from oil in the 7 circuit breakers and the storage tank varied from 3ppm to 4ppm. Test results for halogens was also well below the threshold to be considered contaminated. Therefore, all oil in the circuit breaker system shall be considered noncontaminated.

The manufacturer of the OCB bushings has indicated that PCB insulating fluids were not used during the period of time when these bushings were built. The construction of the OCB bushings prevents oil sampling to confirm this assertion. The OCB bushings shall be treated as PCB-free.



### 3.1.4 Disposal

All equipment removed, including the oil circuit breakers, circuit breaker bushings, and the circuit breaker oil shall become the property of the Contractor, removed from the project site, and disposed of in a legal manner.

## 3.2 COMPLETION OF SPARE UNIT CONTROL BOARD SPACES

### 3.2.1 General

There are existing 480V AC sources in the corresponding SU control boards for breakers XW4, XW5, and XW6. There are existing equipped spare spaces in the SU1 and SU3 unit control boards for the new SF<sub>6</sub> gas circuit breakers XW0, XW1, and XW3. There are spare empty spaces in the SU2 unit control board. The table below summarizes the existing and required 480V AC control sources and the work required by the Contractor.

121kV Gas Circuit Breaker	SU Board to Be Used	Preferred Compartment	Action Required to By Contractor
XW0	SU3	5D2 (spare)	Replace Breaker in Equipped Space
XW1	SU1	3E2 (spare)	Replace Breaker in Equipped Space
XW2	SU2	None preferred	<u>Convert Empty Space</u>
XW3	SU3	3E2 (spare)	Replace Breaker in Equipped Space
XW4	SU4	Use Existing Space	None
XW5	SU5	Use Existing Space	None
XW6	SU6	Use Existing Space	None

### 3.2.2 SU1 and SU3 Control Board Modifications

The spare equipped spaces in control boards SU1 and SU3 noted in the table above are equipped with 50A three pole molded-case breakers. The Contractor shall replace the 50A breakers with appropriately sized breakers as shown on the approved Contractor prepared electrical schematic diagrams. The three removed molded-case air circuit breakers will remain the property of the Government.

### 3.2.3 SU2 Control Board Modifications

The Contractor shall make modifications to one existing SU2 Unit Control Board spare compartment to serve as a permanent source of 480V AC auxiliary power to the new SF<sub>6</sub> gas circuit breaker, XW2. The modification to the space in control board SU2 shall include furnishing and installing one complete removable "bucket" for the control board space of the same or compatible type and design as found in the other compartments in the SU board. The new bucket shall include the necessary "stabs" to attach to the 480V bus at the rear of the compartment, one new molded-case air circuit breaker (as specified in paragraph 2.7 above), one separable terminal block to enable the outgoing cables to be quickly disconnected, and an appropriate door mounted operating mechanism. The Contractor shall convert the bolted door of the space used to be hinged on the right side in a manner compatible with the other compartments on the SU board. The Contractor shall match the existing unit control board design and appearance in terms of operating hardware and installation details,

including device wiring, to the extent practicable. The Contractor shall perform the retrofit work in a professional and craftsman-like manner.

### 3.3 INSTALLATION OF GOVERNMENT-FURNISHED 121 kV GAS CIRCUIT BREAKERS

#### 3.3.1 General

The Government-furnished equipment consists of seven (7) SF<sub>6</sub> gas circuit breakers rated 121 kV, 2,000 amperes continuous current, and 40,000 amperes short circuit current. The Government shall supply all necessary SF<sub>6</sub> gas. The Contractor shall submit an installation plan for this equipment. The Contractor shall install the breakers in accordance with the contract and approved Contractor drawings. The work shall include, but is not limited to, physically installing and anchoring the breakers, connecting the 115kV buswork to the breakers, installing new conduit and cable to the breakers, grounding the breakers, furnishing all necessary equipment and materials and placing the breakers in an approved operating condition.

#### 3.3.2 Placement and Anchoring

The Contractor shall place the breakers on the concrete deck in such a manner as to minimize the required 115kV bus work in an orientation approved by the GQAR. The Contractor shall anchor the breakers to the concrete deck using approved materials and methods.

### 3.4 CONDUIT SYSTEMS

All leads from devices and accessories shall be run in conduit where indicated on the contract drawings and connected to terminal blocks. All conduit runs installed shall be terminated at devices or connection boxes and at the terminal cabinet in tapped holes having not less than 3-1/2 pipe threads, or in standard pipe-threaded couplings or nipples integral with or welded to the device or cabinet. Similar pipe-threaded connections shall be provided on the terminal cabinet for attaching incoming conduit. Other conduit connections shall be made with cast metal boxes and outlet fittings having threaded outlets and gasketed covers. No running threads on conduit will be permitted.

Conduit, fittings and accessories shall be installed in accordance with details shown and as specified herein. All conduit shall be rigid galvanized steel except where specifically indicated on the drawings.

a. All conduit bends shall have a radius of not less than ten times the conduit's inside diameter.

b. No threadless fittings or running-thread couplings shall be used on conduit runs.

c. Metal conduits shall be cut only with a tool approved for the purpose. Roller type pipe cutters shall not be used on conduits. All cuts shall be square and the conduit opening shall not be constricted. After cutting and threading, conduit ends shall be reamed to remove rough edges and burrs and the entire conduit shall be thoroughly cleaned to remove all cuttings, dirt and oil from its interior. Threads shall be clean cut. Threaded joints in metal conduit and terminations in cast boxes shall have the threads coated with an approved joint compound, and shall be screwed tight to make the joint watertight and to provide electrical continuity of a given conduit system. Suitable watertight conduit hubs and bushings shall be provided where conduit terminates within a box, terminal cabinet or accessory that has no threaded hub or fitting to receive threaded conduit.

d. All conduits shall be installed in such a manner as to insure against trouble from the collection of trapped condensation and all runs shall be arranged to avoid traps wherever possible.

e. Pull boxes shall be furnished NEMA 3R and installed, complete with water-tight covers, in conduit runs as required by the NEC and good practice in the trade, regardless of whether the boxes are specified on the drawings.

f. Conduit shall be installed with a minimum of bending and cutting. Conduits not dimensioned as to location shall be installed approximately where shown with limited adjustment to avoid interference with other work. Conduit shall be rigidly attached with approved supports and anchors to the surface over which it is run. The maximum spacing of supports for the exposed conduit shall be 8 feet. Supports for exposed conduit on concrete surfaces shall be fastened securely to the concrete with approved anchors. Wooden, fibrous, or similar plugs inserted into the concrete will not be accepted.

g. The entire metallic conduit system installed by the Contractor shall be electrically continuous and thoroughly grounded. No welding or brazing of the grounding conductor to the conduit will be allowed. All grounding connections to the conduit shall be made by means of grounding bushings or by an approved pressure type connector.

### 3.5 WIRE AND CABLE INSTALLATION

#### 3.5.1 General

For the purposes of this contract, the term "internal wiring" shall be used to designate the factory installed wiring furnished with the new SF<sub>6</sub> circuit breakers, and the term "external wiring" shall be used to designate the Contractor installed field wiring. Conduit and cable schedules for the Contractor installed field wiring are shown on the contract drawings. Although estimated cable lengths are shown on the cable schedule, the Contractor shall be responsible for determining the actual cable length required to make an installation of all new cables without splices.

#### 3.5.2 External Wiring

All external wire and cable shall conform to paragraph INSULATED WIRE AND CABLE of these specifications. All wire and cable shall be installed in accordance with NFPA 70 requirements. All necessary materials, tools and equipment required for proper handling and installation of wire and cable in conduits, cable trays, and elsewhere shall be furnished. Except for spares, each wire and cable shall be connected to the associated equipment at both ends, and new cable shall be continuous and without splices between the equipment termination points. All existing wire and cable runs shall be removed and replaced with new wire and cable, as indicated.

#### 3.5.3 Wire and Cable Dress

Wires and cables shall be routed and dressed in a manner equivalent to that used in the original installation, including the number of cables in each conduit.

#### 3.5.4 Cable Pulls

Wire and cable shall be pulled in a manner that will preclude damage to the conductor, insulation, or jacket. Any cable damaged during installation shall be removed and replaced. Wire and cable shall not be pulled into conduit runs until the conduit has been checked and determined to be clean and dry by pulling a clean, dry, tight-fitting rag through each run. Only approved lubricants may be used to facilitate pulling of conductors. Strain gauges or equal shall be furnished and used, where directed, on wire or cable pulled in

long runs to monitor pulling stress to within the manufacturer's specified limits. Excessive pulling stresses on cable or conductor will not be permitted. Cable trays shall be cleaned of all dirt and trash before the pulling of cable. Cables shall be placed straight and parallel in the trays.

#### 3.5.5 Storage and Handling

Cables on reels and wire in coils shall be stored in an area reserved for that purpose and shall be protected from damage by construction activities or handling. Reels shall be rolled only in the direction indicated by the manufacturer. Conductors shall be unreeled or uncoiled slowly to prevent damage by sudden bending. Unreeling or uncoiling shall be stopped immediately if kinks appear and shall not proceed until kinks have been satisfactorily removed. In pulling conductors into conduits, reels and coils shall be set up in such a way that the conductor may be trained into the conduit as directly as possible. Any wire or cable improperly handled will be rejected.

#### 3.5.6 Terminations

All cable and wire connections shall be made at terminal blocks using ring-tongue indented compression connectors. The shield and shield insulating jacket of shielded signal cables and conductors, if applicable, shall be maintained to a point as close to the terminals as possible. The shield insulating jacket shall not be stripped from the shield except where necessary to make the ground connection. All signal cable shields shall be grounded at one end only. Where control and signal cables cannot be immediately terminated at both ends, the end of each cable not terminated shall be capped or taped so that conductors are insulated from each other, the equipment, and ground until connections to the associated equipment can be made.

#### 3.5.7 Identification

All multiple-conductor cables shall be identified with the cable designation by either embossed one-inch diameter brass tags or by embossed aluminum band markers. Tags or band markers shall be securely fastened to the cables at each termination, junction box or pull box, where cables enter or leave cable trays, and as required at other points of access. At the discretion of the GQAR, the existing brass tags may be reused. Wires and individual conductors of control and power conductors shall be identified with nonmetallic tube-type markers at each termination. Markers shall be for the type of wire insulation. Where individual conductors are run in cable trays, markers shall be securely fastened to the conductors every fifty feet, and shall be sized to fit the wire being marked and shall have black marking on a light colored background. Installed markers shall be uniform in position on the wire and legends shall be visible when wires are terminated on blocks or at equipment.

Written certification from an approved independent testing laboratory shall be furnished to indicate that the markers will not stain or discolor after 20 years' service when subjected to an accelerated aging test while in contact with wire insulating materials. Identification on markers shall match those of the removed cables and wires. Each individual conductor ID marker shall follow existing project nomenclature (wire markers indicate termination identifiers at both ends).

#### 3.5.8 Wire and Cable Field Tests

After installation, but just prior to terminal connection, each conductor shall be tested as follows:

- a. A 1000-volt "Megger" test shall be performed with all other conductors in each cable or conduit grounded. The final insulation resistance of each conductor shall not be less than one megohm.

b. A continuity test of each conductor from terminal to terminal shall be performed.

c. Suitable records shall be kept of all tests, indicating the "Megger" readings, high voltage tests, continuity test, and conductor identification markings. A duplicate record of all tests shall be furnished the Contracting Officer. Prior to testing, the test record form shall be submitted for approval.

d. Any length of wire or cable failing the above tests shall be removed and replaced.

e. The Contractor shall furnish all instruments and personnel for these tests.

f. Tests shall be witnessed by the Contracting Officer and the test form shall provide room for the Contracting Officer's signature. Test reports shall be submitted in accordance with SECTION 01330 SUBMITTALS.

### 3.6 GROUNDING

#### 3.6.1 General

All structural equipment and all electrical equipment shall be grounded. Leads to the powerhouse ground system shall be provided near equipment locations and shall be installed as required to connect to the equipment with approved connectors. Ground leads shall be continuous from the point of attachment to the ground grid lead and rigidly supported. Grounding includes exposed ground cables, supports, and connections to exposed equipment. Ground connections shall be made complete to all equipment whether or not specifically shown or detailed on the drawings. Where required to make conduits and other metallic runs electrically continuous, approved copper jumpers or bonding shall be provided.

#### 3.6.2 Ground Conductors

Ground conductors shall be bare, soft annealed copper installed as continuous pieces of cable. Ground conductors shall be Class A stranded. Exposed ground cable runs shall be supported to follow conduit, equipment or concrete contours. Support clamps or clips shall be of corrosion resistant metal and existing equipment bolts or screws shall be used where possible for fastening. Drilling of equipment housings or frames will be permitted only when approved. Concrete anchors shall be used for wall fastening,

### 3.7 HIGH VOLTAGE ELECTRICAL CONNECTIONS

#### 3.7.1 115kV Bus

If the dimensions of the Government-furnished circuit breakers allow, the existing 115kV 1¼ inch IPS aluminum bus connecting each oil circuit breaker to its respective transformer and disconnect switch shall be used to connect to the new circuit breaker. If the dimensions of the new circuit breaker are such that the existing 115kV 1¼ inch IPS aluminum bus cannot be used without joints or splices, the Contractor shall furnish and install new aluminum bus following the existing routing and reusing existing bus supports to connect the Government-furnished circuit breakers. No joints or splices shall be allowed in the 115kV bus. Whether new aluminum bus is used or the existing aluminum bus is adapted, the bus shall be installed in a manner such that no torsional or lateral strain is introduced into the existing 115kV bus supporting hardware.

#### 3.7.2 Terminal Connectors

The Contractor shall furnish and install approved flexible expansion type terminal connectors between the 115kV tubular bus and the Contractor furnished power factor test terminals.

### 3.8 PAINTING OF ELECTRICAL EQUIPMENT

Interior and exterior steel surfaces of equipment enclosures shall be thoroughly cleaned and then, if not galvanized, shall receive a rust-inhibitive phosphatizing or equivalent treatment prior to painting. Interior surfaces shall receive not less than one coat of paint in accordance with the manufacturer's standard practice. Exterior surfaces shall be primed, filled where necessary, and given not less than two coats of quick air-drying lacquer or synthetic enamel with semi-gloss finish, ANSI 70 gray in color.

Any paint damaged during modifications to existing equipment shall be repaired, by degreasing, sanding, feather-edging, priming, and finishing with an approved paint of matching color. Tiny nicks and other similar damage may, if approved, be repaired with matching finish color alone.

### 3.9 BREAKER TESTING

#### 3.9.1 General

All tests required herein shall be witnessed by the Contracting Officer unless waived in writing. The Contractor shall notify the Government two weeks in advance of the date of the tests so that arrangements can be made for the Contracting Officer to be present at the tests. All testing shall be performed with the approval of the erecting engineer. The costs of performing all tests shall be borne by the Contractor and shall be included in the prices bid for the installation.

#### 3.9.2 Breaker Functional Tests

After installation the breakers shall be tested to verify accuracy and completeness of the installation. All testing shall be witnessed by the GQAR whose name and the date of test shall appear on all test documents. Testing shall include but not be limited to control and secondary wiring, timing tests by time-travel recorder, mechanical operation tests (consisting of at least five (5) close-open cycles), dielectric tests of the major insulation, contact resistance, gas tests, and power factor tests. The Contractor shall provide time-travel recorder and power factor testing equipment. During the mechanical operation tests all control circuit functions shall be employed during the cycle of test, and the operation of all auxiliaries shall be checked throughout the test cycle.

#### 3.9.3 Breaker Commissioning Tests

Prior to energizing any equipment supplied under this contract, the Contractor shall have performed and documented all manufacturer's standard equipment checkouts. The Contractor shall submit his final system checkout procedure to the Government, and it shall be approved prior to final checkout and energizing of the new circuit breaker. The Contractor shall supply all equipment and manpower required to implement the approved testing plan. As a minimum, the following operational tests shall be performed by the Contractor as part of the breaker commissioning tests:

- a. Circuit breaker control and annunciation tests.
- b. Functionally test all new control and alarm cables by verifying all interlocks and permissives function as shown on the approved drawings.
- c. Verify existing point-to-point wiring connections for the existing differential and line protective relaying prior to commencing the relay cable

replacement work. The Contractor shall verify all connections with respect to phase rotation, polarity, and phase angle correction after completion of the relay cable replacement work.

### 3.10 SEQUENCE OF WORK

#### 3.10.1 Schedule of Work

The breakers shall be replaced one at a time as described in Section 00800 Clause: Commencement, Prosecution and Completion of Work.

#### 3.10.2 Line Relaying Coordination

Before breakers XW1-XW6 are taken out of service, the effected transmission line will be taken out of service to allow the line relaying current transformer leads for the breaker being replaced to be lifted in the Government SO or SC panels in the control room.

When the breaker is ready to be returned to service but prior to landing the line relaying current transformer leads, the effected transmission line will be taken out of service. Loop checks or other precautions shall be taken to ensure current transformer circuit integrity and polarity. Then the line will be returned to service and in-service current reads taken by the Government to ensure the correctness of the connections.

### 3.11 ERECTING ENGINEER SERVICES (OPTIONAL)

The Contractor shall furnish the services of one or more experienced erecting engineers to supervise and be responsible for the correct performance of this work. The erecting engineer(s) shall be fluent in the English language. On at least 2 projects in the last 5 years, the erection engineer(s) shall have satisfactorily supervised the installation of SF<sub>6</sub> circuit breakers rated 69kV or above, filling of breakers with gas, initial starting and operating of equipment, and performing commissioning tests.

The erecting engineer's qualifications shall be submitted for approval by not later than the date specified in paragraph 1.3.4.3 whether or not Optional Item No. 0010 in the Bid Schedule, Section 00010 has been exercised.

The erecting engineer(s) shall give and be responsible for giving complete and correct directions during the initial starting and all subsequent operation of the equipment until the commissioning tests are completed. The erecting engineer(s) shall also keep a record of all measurements taken during erection and testing and shall submit one copy on request or on completion of installation of the assembly or part. In addition to the above the Erecting Engineer shall provide the Contracting Officer with a daily report. The report shall include inspection activities, instructions provided, test results, recommendations, and observations.

## 4. SUMMARY OF SUBMITTALS.

Submittal Register ENG Form 4288 to be furnished by the Contractor shall include the following:

<u>Paragraph</u>	<u>Item</u>	<u>SD</u>	<u>AEA</u>
16050-1.3.1.1a	Conduit	01	HDC
16050-1.3.1.1b	Expansion type bus connectors	01	HDC
16050-1.3.1.1c	Wire and cable	01	HDC
16050-1.3.1.1d	Wire markers	01	HDC
16050-1.3.2.1	Schematic and Connection diagrams	04	HDC
16050-1.3.2.2	Seismic anchoring diagrams	04	HDC
16050-1.3.3.1	Breaker installation plan	07	HDC
16050-1.3.3.2	Spill containment plan	07	ECC
16050-1.3.4.1	Breaker functional test procedure	08	HDC
16050-1.3.4.2	Breaker Commissioning test procedure	08	HDC
16050-1.3.4.3	Erecting Engineer's qualifications	08	HDC
16050-1.3.5.1	Wire and cable factory tests	09	HDC
16050-1.3.5.2	Wire and cable field tests	09	HDC
16050-1.3.5.3	Breaker functional test report	09	HDC
16050-1.3.5.4	Breaker commissioning test report	09	HDC

<u>Code for Submittal Description (SD)</u>	<u>Action Element for Approval (AEA)</u>
01 - Data	C - Contractor
04 - Drawings	AE - Architect Engineer
06 - Instructions	ED - Engineering Division
07 - Schedules and Plans	CD - Construction Division
08 - Statements	EDA - Engineering Division, Architectural
09 - Reports	Design
13 - Certificates	EDC - Engineering Division, Soils/Civil
14 - Samples	Design
18 - Records	EDE - Engineering Division, Electrical
19 - O & M Manuals	Design
	EDG - Engineering Division, Geology & Dam
	Safety
	EDH - Engineering Division, Hydraulic
	Design
	EDM - Engineering Division, Mechanical
	Design
	EDS - Engineering Division, Structural
	Design
	EDSP - Engineering Division, Specifications
	ECC - Environmental Compliance Coordinator
	HDC - Hydroelectric Design Center

\* \* \* \* \*



General Decision Number: WA030001 03/12/2004

Superseded General Decision Number: **WA020001**

State: Washington

Construction Types: Heavy (Heavy, and Dredging) and Highway  
Counties: Washington Statewide.

HEAVY AND HIGHWAY AND DREDGING CONSTRUCTION PROJECTS (Excludes  
D.O.E. Hanford Site in Benton and Franklin Counties)

Modification Number	Publication Date
0	06/13/2003
1	01/23/2004
2	02/06/2004
3	02/13/2004
4	03/05/2004
5	03/12/2004

CARP0001-008 06/01/2003

	Rates	Fringes
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Carpenters:

COLUMBIA RIVER AREA -

ADAMS, BENTON,

COLUMBIA, DOUGLAS (EAST

OF THE 120TH MERIDIAN),

FERRY, FRANKLIN, GRANT,

OKANOGAN (EAST OF THE

120TH MERIDIAN) AND

WALLA WALLA COUNTIES

GROUP 1:.....\$ 23.88	6.75
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GROUP 2:.....\$ 24.99	6.75
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GROUP 3:.....\$ 24.15	6.75
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GROUP 4:.....\$ 23.88	6.75
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GROUP 5:.....\$ 59.17	6.75
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GROUP 6:.....\$ 28.02	6.75
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SPOKANE AREA: ASOTIN,

GARFIELD, LINCOLN, PEND

OREILLE, SPOKANE,

STEVENS AND WHITMAN

COUNTIES

GROUP 1:.....\$ 23.21	6.75
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GROUP 2:.....\$ 24.31	6.75
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GROUP 3:.....\$ 23.47	6.75
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GROUP 4:.....\$ 23.21	6.75
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GROUP 5:.....\$ 57.50	6.75
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GROUP 6:.....\$ 27.30	6.75
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CARPENTERS CLASSIFICATIONS

GROUP 1: Carpenter; Burner-Welder; Rigger and Signaler;  
Insulators (all types), Acoustical, Drywall and Metal Studs,  
Metal Panels and Partitions; Floor Layer, Sander, Finisher  
and Astro Turf; Layout Carpenters; Form Builder; Rough  
Framer; Outside or Inside Finisher, including doors, windows,  
and jams; Sawfiler; Shingler (wood, composition) Solar,  
Fiberglass, Aluminum or Metal; Scaffold Erecting and  
Dismantling; Stationary Saw-Off Bearer; Wire, Wood and Metal  
Lather Applicator

GROUP 2: Millwright, machine erector

GROUP 3: Piledriver - includes driving, pulling, cutting,  
placing collars, setting, welding, or creosote treated  
material, on all piling

GROUP 4: Bridge, dock and wharf carpenters

GROUP 5: Divers

GROUP 6: Divers Tender

DEPTH PAYY FOR DIVERS:

Each foot over 50-100 feet	\$1.00
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Each foot over 100-175 feet	2.25
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Each foot over 175-250 feet	5.50
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HAZMAT PROJECTS:

Anyone working on a HAZMAT job (task), where HAZMAT certification is required, shall be compensated at a premium, in addition to the classification working in as follows:

LEVEL D + \$.25 per hour - This is the lowest level of protection. No respirator is used and skin protection is minimal.

LEVEL C + \$.50 per hour - This level uses an air purifying respirator or additional protective clothing.

LEVEL B + \$.75 per hour - Uses same respirator protection as Level A. Supplied air line is provided in conjunction with a chemical "splash suit".

LEVEL A +\$1.00 per hour - This level utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line.

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CARP0003-006 06/01/2003

SOUTHWEST WASHINGTON: CLARK, COWLITZ, KLUCKITAT, LEWIS(Piledriver only), PACIFIC (South of a straight line made by extending the north boundary line of Wahkiakum County west to Willapa Bay to the Pacific Ocean), SKAMANIA AND WAHKIAKUM COUNTIES and INCLUDES THE ENTIRE PENINSULA WEST OF WILLAPA BAY SEE ZONE DESCRIPTION FOR CITIES BASE POINTS

ZONE 1:

	Rates	Fringes
Carpenters:		
CARPENTERS; ACOUSTICAL.....	\$ 26.94	10.33
DIVERS TENDERS.....	\$ 29.45	10.33
DIVERS.....	\$ 64.00	10.33
DRYWALL.....	\$ 26.94	10.33
FLOOR LAYERS & FLOOR FINISHERS (the laying of all hardwood floors nailed and mastic set, parquet and wood-type tiles, and block floors, the sanding and finishing of floors, the preparation of old and new floors when the materials mentioned above are to be installed); INSULATORS (fiberglass and similar irritating materials.....	\$ 27.09	10.33
MILLWRIGHTS.....	\$ 27.44	10.33
PILEDRIERS.....	\$ 27.44	10.33

DEPTH PAY:

50 TO 100 FEET \$1.00 PER FOOT OVER 50 FEET  
100 TO 150 FEET 1.50 PER FOOT OVER 100 FEET  
150 TO 200 FEET 2.00 PER FOOT OVER 150 FEET

Zone Differential (Add up Zone 1 rates):

Zone 2 - \$0.85

Zone 3 - 1.25

Zone 4 - 1.70

Zone 5 - 2.00

Zone 6 - 3.00

BASEPOINTS: ASTORIA, LONGVIEW, PORTLAND, THE DALLES, AND VANCOUVER, (NOTE: All dispatches for Washington State Counties: Cowlitz, Wahkiakum and Pacific shall be from Longview Local #1707 and mileage shall be computed from that point.)

ZONE 1: Projects located within 30 miles of the respective

city hall of the above mentioned cities  
 ZONE 2: Projects located more than 30 miles and less than 40  
 miles of the respective city of the above mentioned cities  
 ZONE 3: Projects located more than 40 miles and less than 50  
 miles of the respective city of the above mentioned cities  
 ZONE 4: Projects located more than 50 miles and less than 60  
 miles of the respective city of the above mentioned cities.  
 ZONE 5: Projects located more than 60 miles and less than 70  
 miles of the respective city of the above mentioned cities  
 ZONE 6: Projects located more than 70 miles of the respected  
 city of the above mentioned cities

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 CARP0770-003 06/01/2003

	Rates	Fringes
Carpenters:		
CENTRAL WASHINGTON:		
CHELAN, DOUGLAS (WEST		
OF THE 120TH MERIDIAN),		
KITITITAS, OKANOGAN		
(WEST OF THE 120TH		
MERIDIAN) AND YAKIMA		
COUNTIES		
ACCOUSTICAL WORKERS.....	\$ 20.98	9.22
CARPENTERS AND		
DRYWALL APPLICATORS.....	\$ 20.72	9.22
CARPENTERS ON		
CREOSOTE MATERIAL.....	\$ 20.82	9.22
DIVERS TENDER.....	\$ 31.17	9.50
DIVERS.....	\$ 70.07	9.50
INSULATION APPLICATORS....	\$ 20.72	9.22
MILLWRIGHT AND		
MACHINE ERECTORS.....	\$ 29.40	9.22
PILEDRIIVER, BRIDGE		
DOCK AND WHARF		
CARPENTERS.....	\$ 28.40	9.22
PILEDRIIVER, DRIVING,		
PULLING, CUTTING,		
PLACING COLLARS,		
SETTING, WELDING OR		
CRESOTE TREATED		
MATERIAL, ALL PILING.....	\$ 28.60	9.22
SAWFILERS, STATIONARY		
POWER SAW OPERATORS,		
FLOOR FINISHER, FLOOR		
LAYER, SHINGLER,		
FLOOR SANDER OPERATOR		
AND OPERATORS OF		
OTHER STATIONARY WOOD		
WORKING TOOLS.....	\$ 20.85	9.22
WESTERN WASHINGTON:		
CLALLAM, GRAYS HARBOR,		
ISLAND, JEFFERSON,		
KING, KITSAP, LEWIS		
(excludes piledrivers		
only), MASON, PACIFIC		
(North of a straight		
line made by extending		
the north boundary line		
of Wahkiakum County		
west to the Pacific		
Ocean), PIERCE, SAN		
JUAN, SKAGIT,		
SNOHOMISH, THURSTON AND		

WHATCOM COUNTIES

ACOUSTICAL WORKERS.....	\$ 28.56	9.50
CARPENTERS AND DRYWALL APPLICATORS.....	\$ 28.40	9.50
CARPENTERS ON CREOSOTE MATERIAL.....	\$ 28.50	9.50
DIVERS TENDER.....	\$ 31.17	9.50
DIVERS.....	\$ 70.07	9.50
INSULATION APPLICATORS....	\$ 28.40	9.50
MILLWRIGHT AND MACHINE ERECTORS.....	\$ 29.40	9.50
PILEDRIIVER, BRIDGE, DOCK & WHARF CARPENTERS.....	\$ 28.40	9.50
PILEDRIIVER, DRIVING, PULLING, CUTTING, PLACING COLLARS, SETTING, WELDING OR CRESOTE TREATED MATERIAL, ALL PILING.....	\$ 28.60	9.50
SAWFILERS, STATIONARY POWER SAW OPERATORS, FLOOR FINISHER, FLOOR LAYER, SHINGLER, FLOOR SANDER OPERATOR AND OPERATORS OF OTHER STATIONARY WOOD WORKING TOOLS.....	\$ 28.53	9.50

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - ALL CLASSIFICATIONS EXCEPT MILLWRIGHTS AND PILEDRIIVERS  
Hourly Zone Pay shall be paid on jobs located outside of the free zone computed from the city center of the following listed cities:

Seattle	Olympia	Bellingham
Auburn	Bremerton	Anacortes
Renton	Shelton	Yakima
Aberdeen-Hoquiam	Tacoma	Wenatchee
Ellensburg	Everett	Port Angeles
Centralia	Mount Vernon	Sunnyside
Chelan	Pt. Townsend	

Zone Pay:

0 -25 radius miles	Free
25-35 radius miles	\$1.00/hour
35-45 radius miles	\$1.15/hour
45-55 radius miles	\$1.35/hour
Over 55 radius miles	\$1.55/hour

(HOURLY ZONE PAY: WESTERN AND CENTRAL WASHINGTON - MILLWRIGHT AND PILEDRIIVER ONLY)

Hourly Zone Pay shall be computed from Seattle Union Hall, Tacoma City center, and Everett City center

Zone Pay:

0 -25 radius miles	Free
25-45 radius miles	\$ .70/hour
Over 45 radius miles	\$1.50/hour

\* ELEC0046-001 12/01/2003

CALLAM, JEFFERSON, KING AND KITSAP COUNTIES

	Rates	Fringes
Cable splicer.....	\$ 36.85	3%+11.56
Electrician.....	\$ 33.50	3%+11.56

ELEC0048-003 01/01/2004

CLARK, KLINKITAT AND SKAMANIA COUNTIES

	Rates	Fringes
Cable splicer.....	\$ 31.40	3%+12.35
Electrician.....	\$ 31.15	3%+12.35

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ELEC0073-001 07/01/2003  
ADAMS, FERRY, LINCOLN, PEND OREILLE, SPOKANE, STEVENS, WHITMAN COUNTIES

	Rates	Fringes
Cable splicer.....	\$ 24.37	3%+11.03
Electrician.....	\$ 23.97	3%+11.03

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\* ELEC0076-002 07/01/2003  
GRAYS HARBOR, LEWIS, MASON, PACIFIC, PIERCE, AND THURSTON COUNTIES

	Rates	Fringes
Cable splicer.....	\$ 33.32	3%+12.06
Electrician.....	\$ 30.02	3%+12.06

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ELEC0077-002 02/01/2003

	Rates	Fringes
Line Construction:		
CABLE SPLICERS.....	\$ 37.95	3.875%+7.45
GROUNDMEN.....	\$ 23.72	3.875%+5.70
LINE EQUIPMENT MEN.....	\$ 29.14	3.875%+5.70
LINEMEN, POLE SPRAYERS,		
HEAVY LINE EQUIPMENT MAN....	\$ 33.88	3.875%+7.45
POWDERMEN, JACKHAMMERMEN....	\$ 25.41	3.875%+5.70
TREE TRIMMER.....	\$ 23.81	3.875%+5.70

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ELEC0112-005 06/01/2003  
ASOTIN, BENTON, COLUMBIA, FRANKLIN, GARFIELD, KITTITAS, WALLA WALLA, YAKIMA COUNTIES

	Rates	Fringes
Cable splicer.....	\$ 30.71	3%+10.98
Electrician.....	\$ 29.25	3%+10.98

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\* ELEC0191-003 09/01/2003  
ISLAND, SAN JUAN, SNOHOMISH, SKAGIT AND WHATCOM COUNTIES

	Rates	Fringes
Cable splicer.....	\$ 33.72	3%+9.83
Electrician.....	\$ 30.66	3%+9.83

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\* ELEC0191-004 09/01/2003  
CHELAN, DOUGLAS, GRANT AND OKANOGAN COUNTIES

	Rates	Fringes
Cable splicer.....	\$ 29.33	3%+9.78
Electrician.....	\$ 26.66	3%+9.78

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\* ELEC0970-001 06/01/2003  
COWLITZ AND WAHKIAKUM COUNTIES

	Rates	Fringes
Cable splicer.....	\$ 31.57	3%+9.40
Electrician.....	\$ 28.70	3%+9.40

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ENGI0302-003 06/01/2003  
CHELAN (WEST OF THE 120TH MERIDIAN), CLALLAM, DOUGLAS (WEST OF THE 120TH MERIDIAN), GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, KITTITAS, MASON, OKANOGAN (WEST OF THE 120TH MERIDIAN), SAN JUNA, SKAGIT, SNOHOMISH, WHATCOM AND YAKIMA (WEST OF THE 120TH MERIDIAN) COUNTIES  
PROJECTS: CATEGORY A PROJECTS (EXCLUDES CATEGORY B PROJECTS, AS SHOWN BELOW)  
Zone 1 (0-25 radius miles):

	Rates	Fringes
Power equipment operators:		
Group 1A.....	\$ 30.30	9.40
Group 1AA.....	\$ 30.82	9.40
Group 1AAA.....	\$ 31.33	9.40
Group 1.....	\$ 29.79	9.40
Group 2.....	\$ 29.34	9.40
Group 3.....	\$ 28.97	9.40
Group 4.....	\$ 26.80	9.40
Zone Differential (Add to Zone 1 rates):		
Zone 2 (26-45 radius miles) -	\$ .70	
Zone 3 (Over 45 radius miles) -	\$1.00	
BASEPOINTS: Aberdeen, Bellingham, Bremerton, Everett, Kent, Mount Vernon, Port Angeles, Port Townsend, Seattle, Shelton, Wenatchee, Yakima		
POWER EQUIPMENT OPERATORS CLASSIFICATIONS		
GROUP 1AAA - Cranes-over 300 tons, or 300 ft of boom (including jib with attachments)		
GROUP 1AA - Cranes 200 to 300 tons, or 250 ft of boom (including jib with attachments); Tower crane over 175 ft in height, base to boom		
GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 100 tons and over; Tower crane up to 175 ft in height base to boom; Loaders-overhead, 8 yards and over; Shovels, excavator, backhoes-6 yards and over with attachments		
GROUP 1 - Cableway; Cranes 45 tons thru 99 tons, under 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 45 tons thru 99 tons; Derricks on building work; Excavator, shovel, backhoes over 3 yards and under 6 yards; Hard tail end dump articulating off-road equipment 45 yards and over; Loader- overhead 6 yards to, but not including 8 yards; Mucking machine, mole, tunnel, drill and/or shield; Quad 9, HD 41, D-10; Remote control operator on rubber tired earth moving equipment; Rollagon; Scrapers-self propelled 45 yards and over; Slipform pavers; Transporters, all truck or track type		
GROUP 2 - Barrier machine (zipper); Batch Plant Operator-Concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with attachments; Crane-overhead, bridge type-20 tons through 44 tons; Chipper; Concrete Pump-truck mount with boom attachment; Crusher; Deck Engineer/Deck Winches (power); Drilling machine; Excavator, shovel, backhoe-3 yards and under; Finishing Machine, Bidwell, Gamaco and similar equipment; Guardrail punch; Horizontal/directional drill operator; Loaders-overhead under 6 yards; Loaders-plant feed; Locomotives-all; Mechanics-all; Mixers-asphalt plant; Motor patrol graders-finishing; Piledriver (other than crane mount); Roto-mill, roto-grinder; Screedman, spreader, topside operator-Blaw Knox, Cedar Rapids, Jaeger, Caterpillar, Barbar Green; Scraper-self propelled, hard tail end dump, articulating off-road equipment-under 45 yards; Subgrade trimmer; Tractors, backhoes-over 75 hp; Transfer material service machine-shuttle buggy, blaw knox-roadtec; Truck crane oiler/driver-100 tons and over; Truck Mount portable conveyor; Yo Yo Pay dozer		
GROUP 3 - Conveyors; Cranes-thru 19 tons with attachments; A-frame crane over 10 tons; Drill oilers-auger type, truck or crane mount; Dozers-D-9 and under; Forklift-3000 lbs. and over with attachments; Horizontal/directional drill locator; Outside hoists-(elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/boom trucks over 10 tons; Loader-elevating type, belt; Motor patrol		

grader-nonfinishing; Plant oiler- asphalt, crusher;  
Pumps-concrete; Roller, plant mix or multi-lift materials;  
Saws-concrete; Scrpers-concrete and carry-all; Service  
engineer-equipment; Trenching machines; Truck Crane  
Oiler/Driver under 100 tons; Tractors, backhoe 75 hp and under  
GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor;  
Concrete finish mahine-laser screed; Cranes-A frame-10 tons  
and under; Elevator and Manlift-permanent or shaft type;  
Gradechecker, Stakehop; Forklifts under 3000 lbs. with  
attachments; Hydralifts/boom trucks, 10 tons and under; Oil  
distributors, blower distribution and mulch seeding operator;  
Pavement breaker; Posthole digger, mechanical; Power plant;  
Pumps, water; Rigger and Bellman; Roller-other than plant  
mix; Wheel Tractors, farmall type; Shotcrete/gunite equipment  
operator

CATEGORY B PROJECTS: 95% OF THE BASIC HOURLY RATE FOR EACH  
GROUP PLUS FULL FRINGE BENEFITS APPLICABLE TO CATEGORY A  
PROJECTS SHALL APPLY TO THE FOLLOWING PROJECTS. REDUCED  
RATES MAY BE PAID ON THE FOLLOWING:

1. Projects involving work on structures such as buildings  
and bridges whose total value is less than \$1.5  
million excluding mechanical, electrical, and utility portions  
of the contract.

2. Projects of less than \$1 million where no building is  
involved. Surfacing and paving including, but  
utilities excluded.

3. Marine projects (docks, wharfs, ect.) less than \$150,000.  
HANDLING OF HAZARDOUS WASTE MATERIALS: Personnel in all craft  
classifications subject to working inside a federally designed  
hazardous perimeter shall be elgible for compensation in  
accordance with the following group schedule relative to the  
level of hazardous waste as outlined in the specific hazardous  
waste project site safety plan.

H-1 Base wage rate when on a hazardous waste site when not  
outfitted with protective clothing.

H-2 Class "C" Suit - Base wage rate plus \$.25 per hour.

H-3 Class "B" Suit - Base wage rate plus \$.50 per hour.

H-4 Class "A" Suit - Base wage rate plus \$.75 per hour.

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ENGI0302-009 06/01/2002

CHELAN (WEST OF THE 120TH MERIDIAN), CLALLAM, DOUGLAS (WEST OF  
THE 120TH MERIDIAN), GRAYS HARBOR, ISLAND, JEFFERSON, KING,  
KITSAP, KITTITAS, MASON, OKANOGAN (WEST OF THE 120TH MERIDIAN),  
SAN JUNA, SKAGIT, SNOHOMISH, WHATCOM AND YAKIMA (WEST OF THE  
120TH MERIDIAN) COUNTIES

ON PROJECTS DESCRIBED IN FOOTNOTE A BELOW, THE RATE FOR EACH  
GROUP SHALL BE 95% OF THE BASE RATE PLUS FULL FRINGE BENEFITS.  
ON ALL OTHER WORK, THE FOLLOWING RATES APPLY.

WORK PERFORMED ON HYDRAULIC DREDDGES:

Zone 1 (0-25 radius miles):

	Rates	Fringes
Power equipment operators:		
GROUP 1		
TOTAL PROJECT COST		
\$300,000 AND OVER.....	\$ 28.51	9.40
TOTAL PROJECT COST		
UNDER \$300,000.....	\$ 26.96	8.40
GROUP 2		
TOTAL PROJECT COST		
\$300,000 AND OVER.....	\$ 28.62	9.40
TOTAL PROJECT COST		
UNDER \$300,000.....	\$ 27.06	8.40
GROUP 3		

TOTAL PROJECT COST		
\$300,000 AND OVER.....\$	28.97	9.40
TOTAL PROJECT COST		
UNDER \$300,000.....\$	27.38	8.40
GROUP 4		
TOTAL PROJECT COST		
\$300,000 AND OVER.....\$	29.02	9.40
TOTAL PROJECT COST		
UNDER \$300,000.....\$	27.43	8.40
GROUP 5		
TOTAL PROJECT COST		
\$300,000 AND OVER.....\$	30.45	9.40
TOTAL PROJECT COST		
UNDER \$300,000.....\$	28.75	8.40
GROUP 6		
TOTAL PROJECT COST		
\$300,000 AND OVER.....\$	28.51	9.40
TOTAL PROJECT COST		
UNDER \$300,000.....\$	26.96	8.40
Zone Differential (Add to Zone 1 rates):		
Zone 2 (26-45 radius miles) - \$ .70		
Zone 3 (Over 45 radius miles) - \$1.00		
BASEPOINTS: Aberdeen, Bellingham, Bremerton, Everett, Kent,		
Mount Vernon, Port Angeles, Port Townsend, Seattle, Shelton,		
Wenatchee, Yakima		
POWER EQUIPMENT OPERATORS CLASSIFICATIONS		
GROUP 1 - ASSISTANT MATE (DECKHAND)		
GROUP 2 - OILER		
GROUP 3 - ASSISTANT ENGINEER (ELECTRIC, DIESEL, STEAM OR		
BOOSTER PUMP); MATES AND BOATMEN		
GROUP 4 - CRANEMAN, ENGINEER WELDER		
GROUP 5 - LEVERMAN, HYDRAULIC		
GROUP 6 - MAINTENANCE		
CATEGORY B PROJECTS: 95% OF THE BASIC HOURLY RATE FOR EACH		
GROUP PLUS FULL FRINGE BENEFITS APPLICABLE TO CATEGORY A		
PROJECTS SHALL APPLY TO THE FOLLOWING PROJECTS. REDUCED RATES		
MAY BE PAID ON THE FOLLOWING:		
1. Projects involving work on structures such as buildings		
and bridges whose total value is less than \$1.5 million		
excluding mechanical, electrical, and utility portions of the		
contract.		
2. Projects of less than \$1 million where no building is		
involved. Surfacing and paving including, but utilities		
excluded.		
3. Marine projects (docks, wharfs, ect.) less than \$150,000.		
HEAVY WAGE RATES (CATEGORY A) APPLIES TO CLAM SHELL DREDGE, HOE		
AND DIPPER, SHOVELS AND SHOVEL ATTACHMENTS, CRANES AND		
BULLDOZERS.		
HANDLING OF HAZARDOUS WASTE MATERIALS: Personnel in all craft		
classifications subject to working inside a federally designed		
hazardous perimeter shall be eligible for compensation in		
accordance with the following group schedule relative to the		
level of hazardous waste as outlined in the specific hazardous		
waste project site safety plan.		
H-1 Base wage rate when on a hazardous waste site when not		
outfitted with protective clothing.		
H-2 Class "C" Suit - Base wage rate plus \$.25 per hour.		
H-3 Class "B" Suit - Base wage rate plus \$.50 per hour.		
H-4 Class "A" Suit - Base wage rate plus \$.75 per hour.		

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ENGI0370-002 08/01/2003

ADAMS, ASOTIN, BENTON, CHELAN (EAST OF THE 120TH MERIDIAN),  
COLUMBIA, DOUGLAS (EAST OF THE 120TH MERIDIAN), FERRY,



FRANKLIN, GARFIELD, GRANT, LINCOLN, OKANOGAN (EAST OF THE 120TH MERIDIAN), PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN AND YAKIMA (EAST OF THE 120TH MERIDIAN) COUNTIES

ZONE 1:

	Rates	Fringes
Power equipment operators:		
GROUP 1A.....	\$ 20.94	7.37
GROUP 1.....	\$ 21.49	7.37
GROUP 2.....	\$ 21.81	7.37
GROUP 3.....	\$ 22.42	7.37
GROUP 4.....	\$ 22.58	7.37
GROUP 5.....	\$ 22.74	7.37
GROUP 6.....	\$ 23.02	7.37
GROUP 7.....	\$ 23.29	7.37
GROUP 8.....	\$ 24.39	7.37

ZONE DIFFERENTIAL (Add to Zone 1 rate): Zone 2 - \$2.00

Zone 1: Within 45 mile radius of Spokane, Moses Lake, Pasco, Washington; Lewiston, Idaho

Zone 2: Outside 45 mile radius of Spokane, Moses Lake, Pasco, Washington; Lewiston, Idaho

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1A: Boat Operator; Crush Feeder; Oiler; Steam Cleaner

GROUP 1: Bit Grinders; Bolt Threading Machine; Compressors (under 2000 CFM, gas, diesel, or electric power); Deck Hand; Drillers Helper (Assist driller in making drill rod connections, service drill engine and air compressor, repair drill rig and drill tools, drive drill support truck to and on the job site, remove drill cuttings from around bore hole and inspect drill rig while in operation); Fireman & Heater Tender; Grade Checker; Hydro-seeder, Mulcher, Nozzleman; Oiler Driver, & Cable Tender, Mucking Machine; Pumpman; Rollers, all types on subgrade, including seal and chip coatings (farm type, Case, John Deere & similar, or Compacting Vibrator), except when pulled by Dozer with operable blade; Welding Machine

GROUP 2: A-frame Truck (single drum); Assistant Refrigeration Plant (under 1000 ton); Assistant Plant Operator, Fireman or Pugmixer (asphalt); Bagley or Stationary Scraper; Belt Finishing Machine; Blower Operator (cement); Cement Hog; Compressor (2000 CFM or over, 2 or more, gas diesel or electric power); Concrete Saw (multiple cut); Distributor Leverman; Ditch Witch or similar; Elevator Hoisting Materials; Dope Pots (power agitated); Fork Lift or Lumber Stacker, hydra-lift & similar; Gin Trucks (pipeline); Hoist, single drum; Loaders (bucket elevators and conveyors); Longitudinal Float; Mixer (portable-concrete); Pavement Breaker, Hydra-Hammer & similar; Power Broom; Railroad Ballast Regulation Operator (self-propelled); Railroad Power Tamper Operator (self-propelled); Railroad Tamper Jack Operator (self-propelled); Spray Curing Machine (concrete); Spreader Box (self-propelled); Straddle Buggy (Ross & similar on construction job only); Tractor (Farm type R/T with attachment, except Backhoe); Tugger Operator

GROUP 3: A-frame Truck (2 or more drums); Assistant Refrigeration Plant & Chiller Operator (over 1000 ton); Backfillers (Cleveland & similar); Batch Plant & Wet Mix Operator, single unit (concrete); Belt-Crete Conveyors with power pack or similar; Belt Loader (Kocal or similar); Bending Machine; Bob Cat; Boring Machine (earth); Boring Machine (rock under 8 inch bit) (Quarry Master, Joy or similar); Bump Cutter (Wayne, Saginaw or similar); Canal Lining Machine (concrete); Chipper (without crane); Cleaning & Doping Machine (pipeline); Deck Engineer; Elevating

Belt-type Loader (Euclid, Barber Green & similar); Elevating Grader-type Loader (Dumor, Adams or similar); Generator Plant Engineers (diesel or electric); Gunnite Combination Mixer & Compressor; Locomotive Engineer; Mixermobile; Mucking Machine; Posthole Auger or Punch; Pump (grout or jet); Soil Stabilizer (P & H or similar); Spreader Machine; Tractor (to D-6 or equivalent) and Traxcavator; Traverse Finish Machine; Turnhead Operator

GROUP 4: Concrete Pumps (squeeze-crete, flow-crete, pump-crete, Whitman & similar); Curb Extruder (asphalt or concrete); Drills (churn, core, calyx or diamond) (operate drilling machine, drive or transport drill rig to and on job site and weld well casing); Equipment Serviceman; Greaser & Oiler; Hoist (2 or more drums or Tower Hoist); Loaders (overhead & front-end, under 4 yds. R/T); Refrigeration Plant Engineer (under 1000 ton); Rubber-tired Skidders (R/T with or without attachments); Surface Heater & Plant Machine; Trenching Machines (under 7 ft. depth capacity); Turnhead (with re-screening); Vacuum Drill (reverse circulation drill under 8 inch bit)

GROUP 5: Backhoe (under 45,000 gw); Backhoe & Hoe Ram (under 3/4 yd.); Carrydeck & Boom Truck (under 25 tons); Cranes (25 tons & under), all attachments including clamshell, dragline; Derricks & Stifflegs (under 65 tons); Drilling Equipment (8 inch bit & over) (Robbins, reverse circulation & similar) (operates drilling machine, drive or transport drill rig to and on job site and weld well casing); Hoe Ram; Piledriving Engineers; Paving (dual drum); Railroad Track Liner Operatr (self-propelled); Refrigeration Plant Engineer (1000 tons & over); Signalman (Whirleys, Highline Hammerheads or similar)

GROUP 6: Asphalt Plant Operator; Automatic Subgrader (Ditches & Trimmers) (Autograde, ABC, R.A. Hansen & similar on grade wire); Backhoe (45,000 gw and over to 110,000 gw); Backhoes & Hoe Ram (3/4 yd. to 3 yd.); Batch Plant (over 4 units); Batch & Wet Mix Operator (multiple units, 2 & incl. 4); Blade Operator (motor patrol & attachments, Athey & Huber); Boom Cats (side); Cable Controller (dispatcher); Clamshell Operator (under 3 yds.); Compactor (self-propelled with blade); Concrete Pump Boom Truck; Concrete Slip Form Paver; Cranes (over 25 tons, to and including 45 tons), all attachments including clamshell, dragline; Crusher, Grizzle & Screening Plant Operator; Dozer, 834 R/T & similar; Draglines (under 3 yds.); Drill Doctor; H.D. Mechanic; H.D. Welder; Loader Operator (front-end & overhead, 4 yds. incl. 8 yds.); Multiple Dozer Units with single blade; Paving Machine (asphalt and concrete); Quad-Track or similar equipment; Roller (finishing asphalt pavement); Roto Mill (pavement grinder); Scrapers, all, rubber-tired; Screed Operator; Shovel (under 3 yds.); Tractors (D-6 & equivalent & over); Trenching Machines (7 ft. depth & over); Tug Boat Operator; Vactor guzzler, super sucker

GROUP 7: Backhoe (over 110,000 gw); Backhoes & Hoe Ram (3 yds & over); Blade (finish & bluetop) Automatic, CMI, ABC, Finish Athey & Huber & similar when used as automatic; Cableway Operators; Concrete Cleaning/Decontamination machine operator; Cranes (over 45 tons to but not including 85 tons), all attachments including clamshell and dragline; Derricks & Stiffleys (65 tons & over); Elevating Belt (Holland type); Heavy equipment robotics operator; Loader (360 degrees revolving Koehring Scooper or similar); Loaders (overhead & front-end, over 8 yds. to 10 yds.); Rubber-tired Scrapers (multiple engine with three or more scrapers); Shovels (3

yds. & over); Whirleys & Hammerheads, ALL  
 GROUP 8: Cranes (85 tons and over, and all climbing,  
 overhead, rail and tower), all attachments including  
 clamshell, dragline; Loaders (overhead and front-end, 10  
 yards and over); Helicopter Pilot  
 BOOM PAY: (All Cranes, Including Tower)  
 180 ft to 250 ft \$ .30 over scale  
 Over 250 ft \$ .60 over scale

NOTE:

In computing the length of the boom on Tower Cranes, they  
 shall be measured from the base of the Tower to the point of  
 the boom.

HAZMAT:

Anyone working on HAZMAT jobs, working with supplied air  
 shall receive \$1.00 an hour above classification.

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 ENGI0370-006 06/01/2002

ADAMS, ASOTIN, BENTON, CHELAN (EAST OF THE 120TH MERIDIAN),  
 COLUMBIA, DOUGLAS (EAST OF THE 120TH MERIDIAN), FERRY,  
 FRANKLIN, GARFIELD, GRANT, LINCOLN, OKANOGAN (EAST OF THE 120TH  
 MERIDIAN), PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN  
 AND YAKIMA (EAST OF THE 120TH MERIDIAN) COUNTIES  
 WORK PERFORMED ON HYDRAULIC DREDGES

	Rates	Fringes
Hydraulic Dredge		
GROUP 1:.....	\$ 24.73	6.27
GROUP 2:.....	\$ 25.10	6.27
GROUP 3:.....	\$ 25.13	6.27
GROUP 4:.....	\$ 25.52	6.27
GROUP 5:.....	\$ 24.63	6.27
GROUP 1: Assistant Mate (Deckhand) and Oiler		
GROUP 2: Assistant Engineer (Electric, Diesel, Steam, or Booster Pump); Mates and Boatmen		
GROUP 3: Engineer Welder		
GROUP 4: Leverman, Hydraulic		
GROUP 5: Maintenance		
HEAVY WAGE RATES APPLIES TO CLAM SHELL DREDGE, HOE AND DIPPER, SHOVELS AND SHOVEL ATTACHMENTS, CRANES AND BULLDOZERS.		

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 ENGI0612-001 06/01/2002

LEWIS, PIERCE, PACIFIC (THAT PORTION WHICH LIES NORTH OF A  
 PARALLEL LINE EXTENDED WEST FROM THE NORTHERN BOUNDARY OF  
 WAHKAUKUM COUNTY TO THE SEA IN THE STATE OF WASHINGTON) AND  
 THURSTON COUNTIES

PROJECTS:

CATEGORY A PROJECTS (excludes Category B projects, as shown  
 below)

	Rates	Fringes
Power equipment operators:		
WORK PERFORMED ON		
HYDRAULIC DREDGES:Total		
Project cost \$300,000 and over		
GROUP 1:.....	\$ 28.51	9.40
GROUP 2:.....	\$ 28.62	9.40
GROUP 3:.....	\$ 28.97	9.40
GROUP 4:.....	\$ 29.02	9.40
GROUP 5:.....	\$ 30.45	9.40
GROUP 6:.....	\$ 28.51	9.40
WORK PERFORMED ON		
HYDRAULIC DREDGES:Total		
Project Cost under \$300,000		

GROUP 1.....	\$ 26.96	8.40
GROUP 2.....	\$ 27.06	8.40
GROUP 3.....	\$ 27.38	8.40
GROUP 4.....	\$ 27.43	8.40
GROUP 5.....	\$ 28.75	8.40
GROUP 6.....	\$ 26.96	8.40

ZONE 2 (26-45 radius miles) - Add \$.70 to Zone 1 rates  
 ZONE 3 (Over 45 radius miles) - Add \$1.00 to Zone 1 rates  
 BASEPOINTS: Tacoma, Olympia, and Centralia  
 CATEGORY B PROJECTS - 95% of the basic hourly rate for each group plus full fringe benefits applicable to Category A projects shall apply to the following projects: Reduced rates may be paid on the following:  
 1. Projects involving work on structures such as buildings and structures whose total value is less than \$1.5 million excluding mechanical, electrical, and utility portions of the contract.  
 2. Projects of less than \$1 million where no building is involved. Surfacing and paving included, but utilities excluded.  
 3. Marine projects (docks, wharfs, etc.) less than \$150,000  
 WORK PERFORMED ON HYDRAULIC DREDGES:  
 GROUP 1: Assistant Mate (Deckhand  
 GROUP 2: Oiler  
 GROUP 3: Assistant Engineer (Electric, Diesel, Steam or Booster Pump); Mates and Boatmen  
 GROUP 4: Craneman, Engineer Welder  
 GROUP 5: Leverman, Hydraulic GROUP 6: Maintenance  
 HEAVY WAGE RATES APPLIES TO CLAM SHEEL DREDGE, HOE AND DIPPER, SHOVELS AND SHOVEL ATTACHMENTS, CRANES AND BULLDOZERS  
 HANDLING OF HAZARDOUS WASTE MATERIALS  
 H-1 - When not outfitted with protective clothing of level D equipment - Base wage rate  
 H-2 - Class "C" Suit - Base wage rate + \$.25 per hour  
 H-3 - Class "B" Suit - Base wage rate + \$.50 per hour  
 H-4 - Class "A" Suit - Base wage rate +\$.75 per hour

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 ENGI0612-002 06/01/2003

LEWIS, PIERCE, PACIFIC (portion lying north of a parallel line extending west from the northern boundary of Wahkaikum County to the sea) AND THURSTON COUNTIES

ON PROJECTS DESCRIBED IN FOOTNOTE A BELOW, THE RATE FOR EACH GROUP SHALL BE 90% OF THE BASE RATE PLUS FULL FRINGE BENEFITS. ON ALL OTHER WORK, THE FOLLOWING RATES APPLY.

Zone 1 (0-25 radius miles):

	Rates	Fringes
Power equipment operators:		
GROUP 1A.....	\$ 30.30	9.40
GROUP 1AA.....	\$ 30.82	9.40
GROUP 1AAA.....	\$ 31.33	9.40
GROUP 1.....	\$ 29.79	9.40
GROUP 2.....	\$ 29.34	9.40
GROUP 3.....	\$ 28.97	9.40
GROUP 4.....	\$ 26.80	9.40

Zone Differential (Add to Zone 1 rates):

Zone 2 (26-45 radius miles) = \$ .70

Zone 3 (Over 45 radius miles) - \$1.00

BASEPOINTS: CENTRALIA, OLYMPIA, TACOMA

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1 AAA - Cranes-over 300 tons or 300 ft of boom (including jib with attachments)

GROUP 1AA - Cranes- 200 tonsto 300 tons, or 250 ft of boom (including jib with attachments; Tower crane over 175 ft in

height, base to boom

GROUP 1A - Cranes, 100 tons thru 199 tons, or 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 100 tons and over; Tower crane up to 175 ft in height base to boom; Loaders-overhead, 8 yards and over; Shovels, excavator, backhoes-6 yards and over with attachments

GROUP 1 - Cableway; Cranes 45 tons thru 99 tons under 150 ft of boom (including jib with attachments); Crane-overhead, bridge type, 45 tons thru 99 tons; Derricks on building work; Excavator, shovel, backhoes over 3 yards and under 6 yards; Hard tail end dump articulating off-road equipment 45 yards and over; Loader- overhead, 6 yards to, but not including, 8 yards; Mucking machine, mole, tunnel, drill and/or shield; Quad 9 HD 41, D-10; Remote control operator on rubber tired earth moving equipment; Rollagon; Scrapers-self-propelled 45 yards and over; Slipform pavers; Transporters, all track or truck type

GROUP 2 - Barrier machine (zipper); Batch Plant Operator-concrete; Bump Cutter; Cranes, 20 tons thru 44 tons with attachments; Crane-Overhead, bridge type, 20 tons through 44 tons; Chipper; Concrete pump-truck mount with boom attachment; Crusher; Deck engineer/deck winches (power); Drilling machine; Excavator, shovel, backhoe-3 yards and under; Finishing machine, Bidwell, Gamaco and similar equipment; Guardrail punch; Loaders, overhead under 6 yards; Loaders-plant feed; Locomotives-all; Mechanics- all; Mixers, asphalt plant; Motor patrol graders, finishing; Piledriver (other than crane mount); Roto-mill, roto- grinder; Screedman, spreader, topside operator-Blaw Knox, Cedar Rapids, Jaeger, Caterpillar, Barber Green; Scraper-self-propelled, hard tail end dump, articulating off-road equipment- under 45 yards; Subgrader trimmer; Tractors, backhoe over 75 hp; Transfer material service machine-shuttle buggy, Blaw Knox- Roadtec; Truck Crane oiler/driver-100 tons and over; Truck Mount Portable Conveyor; Yo Yo pay

GROUP 3 - Conveyors; Cranes through 19 tons with attachments; Crane-A-frame over 10 tons; Drill oilers-auger type, truck or crane mount; Dozer-D-9 and under; Forklift-3000 lbs. and over with attachments; Horizontal/directional drill locator; Outside Hoists-(elevators and manlifts), air tuggers, strato tower bucket elevators; Hydralifts/boom trucks over 10 tons; Loaders-elevating type, belt; Motor patrol grader-nonfinishing; Plant oiler- asphalt, crusher; Pump-Concrete; Roller, plant mix or multi-lfit materials; Saws-concrete; Scrapers, concrete and carry all; Service engineers-equipment; Trenching machines; Truck crane oiler/driver under 100 tons; Tractors, backhoe under 75 hp

GROUP 4 - Assistant Engineer; Bobcat; Brooms; Compressor; Concrete Finish Machine-laser screed; Cranes A-frame 10 tons and under; Elevator and manlift (permanent and shaft type); Forklifts-under 3000 lbs. with attachments; Gradechecker, stakeop; Hydralifts/boom trucks, 10 tons and under; Oil distributors, blower distribution and mulch seeding operator; Pavement breaker; Posthole digger-mechanical; Power plant; Pumps-water; Rigger and Bellman; Roller-other than plant mix; Wheel Tractors, farmall type; Shotcrete/gunite equipment operator

FOOTNOTE A- Reduced rates may be paid on the following:

1. Projects involving work on structures such as buildings and bridges whose total value is less than \$1.5 million excluding mechanical, electrical, and utility portions of the contract.
2. Projects of less than \$1 million where no building is

involved. Surfacing and paving included, but utilities excluded.

3. Marine projects (docks, wharfs, etc.) less than \$150,000.

HANDLING OF HAZARDOUS WASTE MATERIALS: Personnel in all craft classifications subject to working inside a federally designated hazardous perimeter shall be eligible for compensation in accordance with the following group schedule relative to the level of hazardous waste as outlined in the specific hazardous waste project site safety plan.

H-1 Base wage rate when on a hazardous waste site when not outfitted with protective clothing

H-2 Class "C" Suit - Base wage rate plus \$ .25 per hour.

H-3 Class "B" Suit - Base wage rate plus \$ .50 per hour.

H-4 Class "A" Suit - Base wage rate plus \$ .75 per hour.

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ENGI0701-002 01/01/2004

CLARK, COWLITZ, KLINKITAT, PACIFIC (SOUTH), SKAMANIA, AND  
WAHIAKUM COUNTIES

	Rates	Fringes
Power equipment operators: (See Footnote A)		
ZONE 1:		
GROUP 1.....	\$ 29.51	9.70
GROUP 1A.....	\$ 30.99	9.70
GROUP 1B.....	\$ 32.46	9.70
GROUP 2.....	\$ 28.25	9.70
GROUP 3.....	\$ 27.47	9.70
GROUP 4.....	\$ 26.93	9.70
GROUP 5.....	\$ 26.32	9.70
GROUP 6.....	\$ 23.91	9.70

Zone Differential (add to Zone 1 rates):

Zone 2 - \$1.50

Zone 3 - 3.00

For the following metropolitan counties: MULTNOMAH;  
CLACKAMAS; MARION; WASHINGTON; YAMHILL; AND COLUMBIA; CLARK;  
AND COWLITZ COUNTY, WASHINGTON WITH MODIFICATIONS AS  
INDICATED:

All jobs or projects located in Multnomah, Clackamas and Marion Counties, West of the western boundary of Mt. Hood National Forest and West of Mile Post 30 on Interstate 84 and West of Mile Post 30 on State Highway 26 and West of Mile Post 30 on Highway 22 and all jobs or projects located in Yamhill County, Washington County and Columbia County and all jobs or projects located in Clark & Cowlitz County, Washington except that portion of Cowlitz County in the Mt. St. Helens "Blast Zone" shall receive Zone I pay for all classifications.

All jobs or projects located in the area outside the identified boundary above, but less than 50 miles from the Portland City Hall shall receive Zone II pay for all classifications.

All jobs or projects located more than 50 miles from the Portland City Hall, but outside the identified border above, shall receive Zone III pay for all classifications.

For the following cities: ALBANY; BEND; COOS BAY; EUGENE;  
GRANTS PASS; KLAMATH FALLS; MEDFORD; ROSEBURG

All jobs or projects located within 30 miles of the respective city hall of the above mentioned cities shall receive Zone I pay for all classifications.

All jobs or projects located more than 30 miles and less than 50 miles from the respective city hall of the above mentioned cities shall receive Zone II pay for all classifications.

All jobs or projects located more than 50 miles from the

respective city hall of the above mentioned cities shall receive Zone III pay for all classifications.

#### POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: CONCRETE: Batch Plant and/or Wet Mix Operator, three units or more; CRANE: Helicopter Operator, when used in erecting work; Whirley Operator, 90 ton and over; LATTICE BOOM CRANE: Operator 200 tons through 299 tons, and/or over 200 feet boom; HYDRAULIC CRANE: Hydraulic Crane Operator 90 tons through 199 tons with luffing or tower attachments; FLOATING EQUIPMENT: Floating Crane, 150 ton but less than 250 ton

GROUP 1A: HYDRAULIC CRANE: Hydraulic Operator, 200 tons and over (with luffing or tower attachment); LATTICE BOOM CRANE: Operator, 200 tons through 299 tons, with over 200 feet boom; FLOATING EQUIPMENT: Floating Crane 250 ton and over

GROUP 1B: LATTICE BOOM CRANE: Operator, 300 tons through 399 tons with over 200 feet boom; Operator 400 tons and over; FLOATING EQUIPMENT: Floating Crane 350 ton and over

GROUP 2: ASPHALT: Asphalt Plant Operator (any type); Roto Mill, pavement profiler, operator, 6 foot lateral cut and over; BLADE: Auto Grader or "Trimmer" (Grade Checker required); Blade Operator, Robotic; BULLDOZERS: Bulldozer operator over 120,000 lbs and above; Bulldozer operator, twin engine; Bulldozer Operator,tandem, quadnine, D10, D11, and similar type; Bulldozere Robotic Equipment (any type; CONCRETE: Batch Plant and/or Wet Mix Operator, one and two drum; Automatic Concrete Slip Form Paver Operator; Concrete Canal Line Operator; Concrete Profiler, Diamond Head; CRANE: Cableway Operator, 25 tons and over; HYDRAULIC CRANE: Hydraulic crane operator 90 tons through 199 tons (with luffing or tower attachment); TOWER/WHIRLEY OPERATOR: Tower Crane Operator; Whirley Operator, under 90 tons; LATTICE BOOM CRANE: 90 through 199 tons and/or 150 to 200 feet boom; CRUSHER: Crusher Plant Operator; FLOATING EQUIPMENT: Floating Clamshell, etc.operator, 3 cu. yds. and over; Floating Crane (derrick barge) Operator, 30 tons but less than 150 tons; LOADERS: Loader operator, 120,000 lbs. and above; REMOTE CONTROL: Remote controlled earth-moving equipment; RUBBER-TIRED SCRAPERS: Rubber- tired scraper operator, with tandem scrapers, multi-engine; SHOVEL, DRAGLINE, CLAMSHELL, SKOOPER OPERATOR: Shovel, Dragline, Clamshell, operator 5 cu. yds and over; TRENCHING MACHINE: Wheel Excavator, under 750 cu. yds. per hour (Grade Oiler required); Canal Trimmer (Grade Oiler required); Wheel Excavator, over 750 cu. yds. per hour; Band Wagon (in conjunction with wheel excavator); UNDERWATER EQUIPMENT: Underwater Equipment Operator, remote or otherwise; HYDRAULIC HOES-EXCAVATOR: Excavator over 130,000 lbs.

GROUP 3: BULLDOZERS: Bulldozer operator, over 70,000 lbs. up to and including 120,000 lbs.; HYDRAULIC CRANE: Hydraulic crane operator, 50 tons through 89 tons (with luffing or tower attachment); LATTICE BOOM CRANES: Lattice Boom Crane-50 through 89 tons (and less than 150 feet boom); FORKLIFT: Rock Hound Operator; HYDRAULIC HOES-EXCAVATOR: excavator over 80,000 lbs. through 130,000 lbs.; LOADERS: Loader operator 60,000 and less than 120,000; RUBBER-TIRED SCRAPERS: Scraper Operator, with tandem scrapers; Self-loading, paddle wheel, auger type, finish and/or 2 or more units; SHOVEL, DRAGLINE, CLAMSHELL,SKOOPER OPERATOR: Shovel, Dragline, Clamshell operators 3 cu. yds. but less than 5 cu yds.

GROUP 4: ASPHALT: Screed Operator; Asphalt Paver operator (screeman required); BLADE: Blade operator; Blade operator, finish; Blade operator, externally controlled by electronic,

mechanical hydraulic means; Blade operator, multi-engine;  
BULLDOZERS: Bulldozer Operator over 20,000 lbs and more than  
100 horse up to 70,000 lbs; Drill Cat Operator; Side-boom  
Operator; Cable-Plow Operator (any type); CLEARING: Log  
Skidders; Chippers; Incinerator; Stump Splitter (loader  
mounted or similar type); Stump Grinder (loader mounted or  
similar type; Tub Grinder; Land Clearing Machine (Track  
mounted forestry mowing & grinding machine); Hydro Axe  
(loader mounted or similar type); COMPACTORS SELF-PROPELLED:  
Compactor Operator, with blade; Compactor Operator,  
multi-engine; Compactor Operator, robotic; CONCRETE: Mixer  
Mobile Operator; Screed Operator; Concrete Cooling Machine  
Operator; Concrete Paving Road Mixer; Concrete Breaker;  
Reinforced Tank Banding Machine (K-17 or similar types);  
Laser Screed; CRANE: Chicago boom and similar types; Lift  
Slab Machine Operator; Boom type lifting device, 5 ton  
capacity or less; Hoist Operator, two (2) drum; Hoist  
Operator, three (3) or more drums; Derrick Operator, under  
100 ton; Hoist Operator, stiff leg, guy derrick or similar  
type, 50 ton and over; Cableway Operator up to twenty (25)  
ton; Bridge Crane Operator, Locomotive, Gantry, Overhead;  
Cherry Picker or similar type crane; Carry Deck Operator;  
Hydraulic Crane Operator, under 50 tons; LATTICE BOOM CRANE  
OPERATOR: Lattice Boom Crane Operator, under 50 tons;  
CRUSHER: Generator Operator; Diesel-Electric Engineer;  
Grizzley Operator; Drill Doctor; Boring Machine Operator;  
Driller-Percussion, Diamond, Core, Cable, Rotary and similar  
type; Cat Drill (John Henry); Directional Drill Operator over  
20,000 lbs pullback; FLOATING EQUIPMENT: Diesel-electric  
Engineer; Jack Operator, elevating barges, Barge Operator,  
self-unloading; Piledriver Operator (not crane type)  
(Deckhand required); Floating Clamshell, etc. Operator,  
under 3 cu. yds. (Fireman or Diesel-Electric Engineer  
required); Floating Crane (derrick barge) Operator, less than  
30 tons; GENERATORS: Generator Operator; Diesel-electric  
Engineer; GUARDRAIL EQUIPMENT: Guardrail Punch Operator (all  
types); Guardrail Auger Operator (all types); Combination  
Guardrail machines, i.e., punch auger, etc.; HEATING PLANT:  
Surface Heater and Planer Operator; HYDRAULIC HOES EXCAVATOR:  
Robotic Hydraulic backhoe operator, track and wheel type up  
to and including 20,000 lbs. with any or all attachments;  
Excavator Operator over 20,000 lbs through 80,000 lbs.;  
LOADERS: Belt Loaders, Kolman and Ko Cal types; Loaders  
Operator, front end and overhead, 25,000 lbs and less than  
60,000 lbs; Elevating Grader Operator by Tractor operator,  
Sierra, Euclid or similar types; PILEDRIVERS: Hammer  
Operator; Piledriver Operator (not crane type); PIPELINE,  
SEWER WATER: Pipe Cleaning Machine Operator; Pipe Doping  
Machine Operator; Pipe Bending Machine Operator; Pipe  
Wrapping Machine Operator; Boring Machine Operator; Back  
Filling Machine Operator; REMOTE CONTROL: Concrete Cleaning  
Decontamination Machine Operator; Ultra High Pressure Water  
Jet Cutting Tool System Operator/Mechanic; Vacuum Blasting  
Machine Operator/mechanic; REPAIRMEN, HEAVY DUTY: Diesel  
Electric Engineer (Plant or Floating; Bolt Threading Machine  
operator; Drill Doctor (Bit Grinder); H.D. Mechanic; Machine  
Tool Operator; RUBBER-TIRED SCRAPERS: Rubber-tired Scraper  
Operator, single engine, single scraper; Self-loading, paddle  
wheel, auger type under 15 cu. yds.; Rubber-tired Scraper  
Operator, twin engine; Rubber-tired Scraper Operator, with  
push-ull attachments; Self Loading, paddle wheel, auger type  
15 cu. yds. and over, single engine; Water pulls, water  
wagons; SHOVEL, DRAGLINE, CLAMSHELL, SKOOPER OPERATOR: Diesel



Electric Engineer; Stationary Drag Scraper Operator; Shovel, Dragline, Clamshell, Operator under 3 cu yds.; Grade-all Operator; SURFACE (BASE) MATERIAL: Blade mounted spreaders, Ulrich and similar types; TRACTOR-RUBBERED TIRED: Tractor operator, rubber-tired, over 50 hp flywheel; Tractor operator, with boom attachment; Rubber-tired dozers and pushers (Michigan, Cat, Hough type); Skip Loader, Drag Box; TRENCHING MACHINE: Trenching Machine operator, digging capacity over 3 ft depth; Back filling machine operator; TUNNEL: Mucking machine operator

GROUP 5: ASPHALT: Extrusion Machine Operator; Roller Operator (any asphalt mix); Asphalt Burner and Reconditioner Operator (any type); Roto-Mill, pavement profiler, ground man; BULLDOZERS: Bulldozer operator, 20,000 lbs. or less or 100 horse or less; COMPRESSORS: Compressor Operator (any power), over 1,250 cu. ft. total capacity; COMPACTORS: Compactor Operator, including vibratory; Wagner Pactor Operator or similar type (without blade); CONCRETE: Combination mixer and Compressor Operator, gunite work; Concrete Batch Plant Quality Control Operator; Beltcrete Operator; Pumpcrete Operator (any type); Pavement Grinder and/or Grooving Machine Operator (riding type); Cement Pump Operator, Fuller-Kenyon and similar; Concrete Pump Operator; Grouting Machine Operator; Concrete mixer operator, single drum, under (5) bag capacity; Cast in place pipe laying machine; maginnis Internal Full slab vibrator operator; Concrete finishing machine operator, Clary, Johnson, Bidwell, Burgess Bridge deck or similar type; Curb Machine Operator, mechanical Berm, Curb and/or Curb and Gutter; Concrete Joint Machine Operator; Concrete Planer Operator; Tower Mobile Operator; Power Jumbo Operator setting slip forms in tunnels; Slip Form Pumps, power driven hydraulic lifting device for concrete forms; Concrete Paving Machine Operator; Concrete Finishing Machine Operator; Concrete Spreader Operator; CRANE: Helicopter Hoist Operator; Hoist Operator, single drum; Elevator Operator; A-frame Truck Operator, Double drum; Boom Truck Operator; HYDRAULIC CRANE OPERATOR: Hydraulic Boom Truck, Pittman; DRILLING: Churn Drill and Earth Boring Machine Operator; Vacuum Truck; Directional Drill Operator over 20,000 lbs pullback; FLOATING EQUIPMENT: Fireman; FORKLIFT: Fork Lift, over 10 ton and/or robotic; HYDRAULIC HOES EXCAVATORS: Hydraulic Backhoe Operator, wheel type (Ford, John Deere, Case type); Hydraulic Backhoe Operator track type up to and including 20,000 lbs.; LOADERS: Loaders, rubber-tired type, less than 25,000 lbs; Elevating Grader Operator, Tractor Towed requiring Operator or Grader; Elevating loader operator, Athey and similar types; OILERS: Service oiler (Greaser); PIPELINE-SEWER WATER: Hydra hammer or similar types; Pavement Breaker Operator; PUMPS: Pump Operator, more than 5 (any size); Pot Rammer Operator; RAILROAD EQUIPMENT: Locomotive Operator, under 40 tons; Ballast Regulator Operator; Ballast Tamper Multi-Purpose Operator; Track Liner Operator; Tie Spacer Operator; Shuttle Car Operator; Locomotive Operator, 40 tons and over; MATERIAL HAULERS: Cat wagon DJBs Volvo similar types; Conveyored material hauler; SURFACING (BASE) MATERIAL: Rock Spreaders, self-propelled; Pulva-mixer or similar types; Chipp Spreading machine operator; Lime spreading operator, construction job site; SWEEPERS: Sweeper operator (Wayne type) self-propelled construction job site; TRACTOR-RUBBER TIRED: Tractor operator, rubber-tired, 50 hp flywheel and under; Trenching machine operator, maximum digging capacity 3 ft depth; TUNNEL: Dinkey

GROUP 6: ASPHALT: Plant Oiler; Plant Fireman; Pugmill Operator (any type); Truck mounted asphalt spreader, with screed; COMPRESSORS: Compressor Operator (any power), under 1,250 cu. ft. total capacity; CONCRETE: Plant Oiler, Assistant Conveyor Operator; Conveyor Operator; Mixer Box Operator (C.T.B., dry batch, etc.); Cement Hog Operator; Concrete Saw Operator; Concrete Curing Machine Operator (riding type); Wire Mat or Brooming Machine Operator; CRANE: Oiler; Fireman, all equipment; Truck Crane Oiler Driver; A-frame Truck Operator, single drum; Tugger or Coffin Type Hoist Operator; CRUSHER: Crusher Oiler; Crusher Feeder; CRUSHER: Crusher oiler; Crusher feeder; DRILLING: Drill Tender; Auger Oiler; FLOATING EQUIPMENT: Deckhand; Boatman; FORKLIFT: Self-propelled Scaffolding Operator, construction job site (excluding working platform); Fork Lift or Lumber Stacker Operator, construction job site; Ross Carrier Operator, construction job site; Lull Hi-Lift Operator or Similar Type; GUARDRAIL EQUIPMENT: Oiler; Auger Oiler; Oiler, combination guardrail machines; Guardrail Punch Oiler; HEATING PLANT: Temporary Heating Plant Operator; LOADERS: Bobcat, skid steer (less than 1 cu yd.); Bucket Elevator Loader Operator, BarberGreene and similar types; OILERS: Oiler; Guardrail Punch Oiler; Truck Crane Oiler-Driver; Auger Oiler; Grade Oiler, required to check grade; Grade Checker; Rigger; PIPELINE-SEWER WATER: Tar Pot Fireman; Tar Pot Fireman (power agitated); PUMPS: Pump Operator (any power); Hydrostatic Pump Operator; RAILROAD EQUIPMENT: Brakeman; Oiler; Switchman; Motorman; Ballast Jack Tamper Operator; SHOVEL, DRAGLINE, CLAMSHELL, SKOOPER, ETC. OPERATOR: Oiler, Grade Oiler (required to check grade); Grade Checker; Fireman; SWEEPER: Broom operator, self propelled, construction job site; SURFACING (BASE) MATERIAL: Roller Operator, grading of base rock (not asphalt); Tamping Machine operator, mechanical, self-propelled; Hydrographic Seeder Machine Operator; TRENCHING MACHINE: Oiler; Grade Oiler; TUNNEL: Conveyor operator; Air filtration equipment operator

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 ENGI0701-003 06/01/2003

CLARK, COWLITZ, KLIKITAT, PACIFIC (SOUTH), SKAMANIA, AND  
 WAHKIAKUM COUNTIES

DREDGING:

	Rates	Fringes
Dredging:		
ZONE A		
ASSISTANT ENGINEER.....	\$ 30.74	9.25
ASSISTANT MATE.....	\$ 26.96	9.25
LEVERMAN, DIPPER,		
FLOATING CLAMSHELL.....	\$ 32.99	9.25
LEVERMAN, HYDRAULIC.....	\$ 32.99	9.25
TENDERMAN.....	\$ 29.71	9.25
ZONE B		
ASSISTANT ENGINEER.....	\$ 32.74	9.25
ASSISTANT MATE.....	\$ 28.96	9.25
LEVERMAN, DIPPER,		
FLOATING CLAMSHELL.....	\$ 34.99	9.25
LEVERMAN, HYDRAULIC.....	\$ 34.99	9.25
TENDERMAN.....	\$ 31.71	9.25
ZONE C		
ASSISTANT ENGINEER.....	\$ 33.74	9.25
ASSISTANT MATE.....	\$ 29.96	9.25
LEVERMAN, DIPPER,		
FLOATING CLAMSHELL.....	\$ 35.99	9.25
LEVERMAN, HYDRAULIC.....	\$ 35.99	9.25

TENDERMAN.....\$ 32.71                      9.25  
 ZONE DESCRIPTION FOR DREDGING:  
 ZONE A - All jobs or projects located within 30 road miles of  
 Portland City Hall.  
 ZONE B - Over 30-50 road miles from Portland City Hall.  
 ZONE C - Over 50 road miles from Portland City Hall.  
 \*All jobs or projects shall be computed from the city hall by  
 the shortest route to the geographical center of the project.

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 IRON0014-005 07/01/2003

ADAMS, ASOTIN, BENTON, COLUMBIA, DOUGLAS, FERRY, FRANKLIN,  
 GARFIELD, GRANT, LINCOLN, OKANOGAN, PEND ORIELLE, SPOKANE,  
 STEVENS, WALLA WALLA AND WHITMAN COUNTIES

	Rates	Fringes
Ironworker.....	\$ 26.32	12.45

-----  
 IRON0029-002 07/01/2003

CLARK, COWLITZ, KLINKITAT, PACIFIC, SKAMANIA, AND WAHKAIAKUM  
 COUNTIES

	Rates	Fringes
Ironworker.....	\$ 27.82	12.45

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 IRON0086-002 07/01/2003

YAKIMA, KITTITAS AND CHELAN COUNTIES

	Rates	Fringes
Ironworker.....	\$ 27.47	12.45

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 IRON0086-004 07/01/2003

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS,  
 MASON, PIERCE, SKAGIT, SNOHOMISH, THURSTON, AND WHATCOM COUNTIES

	Rates	Fringes
Ironworker.....	\$ 28.57	12.45

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 LABO0001-002 07/01/2003

ZONE 1:

	Rates	Fringes
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Laborers:

CALLAM, GRAYS HARBOR,  
 ISLAND, JEFFERSON,  
 KING, KITSAP, LEWIS,  
 MASON, PACIFIC (NORTH  
 OF STRAIGHT LINE MADE  
 BY EXTENDING THE NORTH  
 BOUNDARY WAHKAIAKUM  
 COUNTY WEST TO THE  
 PACIFIC OCEAN), PIERCE,  
 SAN JUAN, SKAGIT,  
 SNOHOMISH, THURSTON AND  
 WHATCOM COUNTIES

GROUP 1.....	\$ 17.71	7.20
GROUP 2.....	\$ 20.03	7.20
GROUP 3.....	\$ 24.71	7.20
GROUP 4.....	\$ 25.19	7.20
GROUP 5.....	\$ 25.55	7.20

CHELAN, DOUGLAS (WEST  
 OF THE 120TH MERIDIAN),  
 KITTITAS AND YAKIMA  
 COUNTIES

GROUP 1.....	\$ 14.59	7.20
GROUP 2.....	\$ 16.91	7.20
GROUP 3.....	\$ 18.63	7.20
GROUP 4.....	\$ 19.11	7.20
GROUP 5.....	\$ 19.47	7.20

ZONE DIFFERENTIAL (ADD TO ZONE 1 RATES):

ZONE 2 - \$ .70

ZONE 3 - \$1.00

BASE POINTS: CHELAN, SUNNYSIDE, WENATCHEE, AND YAKIMA

ZONE 1 - Projects within 25 radius miles of the respective city hall

ZONE 2 - More than 25 but less than 45 radius miles from the respective city hall

ZONE 3 - More than 45 radius miles from the respective city hall

BASE POINTS: BELLINGHAM, MT. VERNON, EVERETT, SEATTLE, KENT, TACOMA, OLYMPIA, CENTRALIA, ABERDEEN, SHELTON, PT. TOWNSEND, PT. ANGELES, AND BREMERTON

ZONE 1 - Projects within 25 radius miles of the respective city hall

ZONE 2 - More than 25 but less than 45 radius miles from the respective city hall

ZONE 3 - More than 45 radius miles from the respective city hall

#### LABORERS CLASSIFICATIONS

GROUP 1: Landscaping and Planting; Watchman; Window Washer/Cleaner (detail clean-up, such as but not limited to cleaning floors, ceilings, walls, windows, etc., prior to final acceptance by the owner)

GROUP 2: Batch Weighman; Crusher Feeder; Fence Laborer; Flagman; Pilot Car

GROUP 3: General Laborer; Air, Gas, or Electric Vibrating Screed; Asbestos Abatement Laborer; Ballast Regulator Machine; Brush Cutter; Brush Hog Feeder; Burner; Carpenter Tender; Cement Finisher Tender; Change House or Dry Shack; Chipping Gun (under 30 lbs.); Choker Setter; Chuck Tender; Clean-up Laborer; Concrete Form Stripper; Curing Laborer; Demolition (wrecking and moving including charred material); Ditch Digger; Dump Person; Fine Graders; Firewatch; Form Setter; Gabian Basket Builders; Grout Machine Tender; Grinders; Guardrail Erector; Hazardous Waste Worker (Level C); Maintenance Person; Material Yard Person; Pot Tender; Rip Rap Person; Riggers; Scale Person; Sloper Sprayer; Signal Person; Stock Piler; Stake Hopper; Toolroom Man (at job site); Topper-Tailer; Track Laborer; Truck Spotter; Vinyl Seamer

GROUP 4: Cement Dumper-Paving; Chipping Gun (over 30 lbs.); Clary Power Spreader; Concrete Dumper/Chute Operator; Concrete Saw Operator; Drill Operator (hydraulic, diamond, aiartrac); Faller and Bucker Chain Saw; Grade Checker and Transit Person; Groutmen (pressure) including post tension beams; Hazardous Waste Worker (Level B); High Scaler; Jackhammer; Laserbeam Operator; Manhole Builder-Mudman; Mortarman and Hodcarrier; Nozzleman (concrete pump, green cutter when using combination of high pressure air and water on concrete and rock, sandblast, gunite, shotcrete, water blaster, vacuum blaster); Pavement Breaker; Pipe Layer and Caulker; Pipe Pot Tender; Pipe Reliner (not insert type); Pipe Wrapper; Power Jacks; Railroad Spike Puller-Power; Raker-Asphalt; Rivet Buster; Rodder; Sloper (over 20 ft); Spreader (concrete); Tamper and Similar electric, air and glas operated tool; Timber Person-sewer (lagger shorer and cribber); Track Liner Power; Tugger Operator; Vibrator; Well Point Laborer

GROUP 5: Caisson Worker; Miner; Powderman; Re-Timberman; Hazardous Waste Worker (Level A).

ADAMS, ASOTIN, BENTON, COLUMBIA, DOUGLAS (EAST OF THE 120TH  
MERIDIAN), FERRY, FRANKLIN, GARFIELD, GRANT, LINCOLN, OKANOGAN,  
PEND OREILLE, STEVENS, SPOKANE, WALLA WALLA AND WHITMAN COUNTIES

Rates Fringes

Laborers:

ZONE 1:

GROUP 1.....	\$ 17.36	6.50
GROUP 2.....	\$ 19.46	6.50
GROUP 3.....	\$ 19.73	6.50
GROUP 4.....	\$ 20.00	6.50
GROUP 5.....	\$ 20.28	6.50
GROUP 6.....	\$ 21.65	6.50

Zone Differential (Add to Zone 1 rate): \$2.00

BASE POINTS: Spokane, Moses Lake, Pasco, Lewiston

Zone 1: 0-45 radius miles from the main post office.

Zone 2: 45 radius miles and over from the main post office.

LABORERS CLASSIFICATIONS

GROUP 1: Flagman; Landscape Laborer; Scaleman; Traffic Control Maintenance Laborer (to include erection and maintenance of barricades, signs and relief of flagperson); Window Washer/Cleaner (detail cleanup, such as, but not limited to cleaning floors, ceilings, walls, windows, etc. prior to final acceptance by the owner)

GROUP 2: Asbestos Abatement Worker; Brush Hog Feeder; Carpenter Tender; Cement Handler; Clean-up Laborer; Concrete Crewman (to include stripping of forms, hand operating jacks on slip form construction, application of concrete curing compounds, pumpcrete machine, signaling, handling the nozzle of squeezecrete or similar machine, 6 inches and smaller); Confined Space Attendant; Concrete Signalman; Crusher Feeder; Demolition (to include clean-up, burning, loading, wrecking and salvage of all material); Dumpman; Fence Erector; Firewatch; Form Cleaning Machine Feeder, Stacker; General Laborer; Grout Machine Header Tender; Guard Rail (to include guard rails, guide and reference posts, sign posts, and right-of-way markers); Hazardous Waste Worker, Level D (no respirator is used and skin protection is minimal); Miner, Class "A" (to include all bull gang, concrete crewman, dumpman and pumpcrete crewman, including distributing pipe, assembly & dismantle, and nipper); Nipper; Riprap Man; Sandblast Tailhoseman; Scaffold Erector (wood or steel); Stake Jumper; Structural Mover (to include separating foundation, preparation, cribbing, shoring, jacking and unloading of structures); Tailhoseman (water nozzle); Timber Bucker and Faller (by hand); Track Laborer (RR); Truck Loader; Well-Point Man; All Other Work Classifications Not Specially Listed Shall Be Classified As General Laborer

GROUP 3: Asphalt Raker; Asphalt Roller, walking; Cement Finisher Tender; Concrete Saw, walking; Demolition Torch; Dope Pot Firemen, non-mechanical; Driller Tender (when required to move and position machine); Form Setter, Paving; Grade Checker using level; Hazardous Waste Worker, Level C (uses a chemical "splash suit" and air purifying respirator); Jackhammer Operator; Miner, Class "B" (to include brakeman, finisher, vibrator, form setter); Nozzleman (to include squeeze and flo-crete nozzle); Nozzleman, water, air or steam; Pavement Breaker (under 90 lbs.); Pipelayer, corrugated metal culvert; Pipelayer, multi-plate; Pot Tender; Power Buggy Operator; Power Tool Operator, gas, electric, pneumatic; Railroad Equipment, power driven, except dual mobile power spiker or puller; Railroad Power Spiker or Puller, dual mobile; Rodder and Spreader; Tamper (to include operation of Barco, Essex and similar tampers); Trencher,

Shawnee; Tugger Operator; Wagon Drills; Water Pipe Liner; Wheelbarrow (power driven)

GROUP 4: Air and Hydraulic Track Drill; Brush Machine (to include horizontal construction joint cleanup brush machine, power propelled); Caisson Worker, free air; Chain Saw Operator and Faller; Concrete Stack (to include laborers when laborers working on free standing concrete stacks for smoke or fume control above 40 feet high); Gunitite (to include operation of machine and nozzle); Hazardous Waste Worker, Level B (uses same respirator protection as Level A. A supplied air line is provided in conjunction with a chemical "splash suit"); High Scaler; Laser Beam Operator (to include grade checker and elevation control); Miner, Class C (to include miner, nozzleman for concrete, laser beam operator and rigger on tunnels); Monitor Operator (air track or similar mounting); Mortar Mixer; Nozzleman (to include jet blasting nozzleman, over 1,200 lbs., jet blast machine power propelled, sandblast nozzle); Pavement Breaker (90 lbs. and over); Pipelayer (to include working topman, caulker, collarman, jointer, mortarman, rigger, jacker, shorer, valve or meter installer); Pipewrapper; Plasterer Tender; Vibrators (all)

GROUP 5 - Drills with Dual Masts; Hazardous Waste Worker, Level A (utilizes a fully encapsulated suit with a self-contained breathing apparatus or a supplied air line); Miner Class "D", (to include raise and shaft miner, laser beam operator on riases and shafts)

GROUP 6 - Powderman

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LABO0238-006 07/01/2003

COUNTIES EAST OF THE 120TH MERIDIAN: ADAMS, ASOTIN, BENTON, COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT, LINCOLN, OKANOGAN, PEND OREILLE, STEVENS, SPOKANE, WALLA WALLA, WHITMAN

	Rates	Fringes
Hod Carrier.....	\$ 20.95	6.50

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LABO0335-001 06/01/2003

CLARK, COWLITZ, KLUCKITAT, PACIFIC (SOUTH OF A STRAIGHT LINE MADE BY EXTENDING THE NORTH BOUNDARY LINE OF WAHKIACUM COUNTY WEST TO THE PACIFIC OCEAN), SKAMANIA AND WAHKIACUM COUNTIES

	Rates	Fringes
Laborers:		
ZONE 1:		
GROUP 1.....	\$ 22.92	7.40
GROUP 2.....	\$ 23.44	7.40
GROUP 3.....	\$ 23.84	7.40
GROUP 4.....	\$ 24.18	7.40
GROUP 5.....	\$ 20.70	7.40
GROUP 6.....	\$ 18.54	7.40
GROUP 7.....	\$ 15.71	7.40

Zone Differential (Add to Zone 1 rates):

Zone 2 \$ 0.65

Zone 3 - 1.15

Zone 4 - 1.70

Zone 5 - 2.75

BASE POINTS: GOLDENDALE, LONGVIEW, AND VANCOUVER

ZONE 1: Projects within 30 miles of the respective city all.

ZONE 2: More than 30 miles but less than 40 miles from the respective city hall.

ZONE 3: More than 40 miles but less than 50 miles from the respective city hall.

ZONE 4: More than 50 miles but less than 80 miles from the respective city hall.

ZONE 5: More than 80 miles from the respective city hall.

LABORERS CLASSIFICATIONS

GROUP 1: Asphalt Plant Laborers; Asphalt Spreaders; Batch Weighman; Broomers; Brush Burners and Cutters; Car and Truck Loaders; Carpenter Tender; Change-House Man or Dry Shack Man; Choker Setter; Clean-up Laborers; Curing, Concrete; Demolition, Wrecking and Moving Laborers; Dumpers, road oiling crew; Dumpmen (for grading crew); Elevator Feeders; Guard Rail, Median Rail Reference Post, Guide Post, Right of Way Marker; Fine Graders; Fire Watch; Form Strippers (not swinging stages); General Laborers; Hazardous Waste Worker; Leverman or Aggregate Spreader (Flaherty and similar types); Loading Spotters; Material Yard Man (including electrical); Pittsburgh Chipper Operator or Similar Types; Railroad Track Laborers; Ribbon Setters (including steel forms); Rip Rap Man (hand placed); Road Pump Tender; Sewer Labor; Signalman; Skipman; Slopers; Spraymen; Stake Chaser; Stockpiler; Tie Back Shoring; Timber Faller and Bucker (hand labor); Toolroom Man (at job site); Tunnel Bullgang (above ground); Weight-Man- Crusher (aggregate when used)

GROUP 2: Applicator (including pot power tender for same), applying protective material by hand or nozzle on utility lines or storage tanks on project; Brush Cutters (power saw); Burners; Choker Splicer; Clary Power Spreader and similar types; Clean- up Nozzleman-Green Cutter (concrete, rock, etc.); Concrete Power Buggyman; Concrete Laborer; Crusher Feeder; Demolition and Wrecking Charred Materials; Gunit Nozzleman Tender; Gunit or Sand Blasting Pot Tender; Handlers or Mixers of all Materials of an irritating nature (including cement and lime); Tool Operators (includes but not limited to: Dry Pack Machine; Jackhammer; Chipping Guns; Paving Breakers); Pipe Doping and Wrapping; Post Hole Digger, air, gas or electric; Vibrating Screed; Tampers; Sand Blasting (Wet); Stake-Setter; Tunnel-Muckers, Brakemen, Concrete Crew, Bullgang (underground)

GROUP 3: Asbestos Removal; Bit Grinder; Drill Doctor; Drill Operators, air tracks, cat drills, wagon drills, rubber-mounted drills, and other similar types including at crusher plants; Gunit Nozzleman; High Scalers, Strippers and Drillers (covers work in swinging stages, chairs or belts, under extreme conditions unusual to normal drilling, blasting, barring-down, or sloping and stripping); Manhole Builder; Powdermen; Concrete Saw Operator; Pwdermen; Power Saw Operators (Bucking and Falling); Pumpcrete Nozzlemen; Sand Blasting (Dry); Sewer Timberman; Track Liners, Anchor Machines, Ballast Regulators, Multiple Tampers, Power Jacks, Tugger Operator; Tunnel-Chuck Tenders, Nippers and Timbermen; Vibrator; Water Blaster

GROUP 4: Asphalt Raker; Concrete Saw Operator (walls); Concrete Nozzelman; Grade Checker; Pipelayer; Laser Beam (pipelaying)-applicable when employee assigned to move, set up, align; Laser Beam; Tunnel Miners; Motorman-Dinky Locomotive-Tunnel; Powderman-Tunnel; Shield Operator-Tunnel

GROUP 5: Traffic Flaggers

GROUP 6: Fence Builders

GROUP 7: Landscaping or Planting Laborers

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LABO0335-010 06/01/2003

CLARK, COWLITZ, KLICKITAT, PACIFIC (SOUTH OF A STRAIGHT LINE MADE BY EXTENDING THE NORTH BOUNDARY LINE OF WAHAKIAKUM COUNTY WEST TO THE PACIFIC OCEAN), SKAMANIA AND WAHAKIAKUM COUNTIES

	Rates	Fringes
Hod Carrier.....	\$ 24.69	7.40

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PAIN0005-002 06/01/2003

STATEWIDE EXCEPT CLARK, COWLITZ, KLINKITAT, PACIFIC (SOUTH),  
SKAMANIA, AND WAHIAKUM COUNTIES

	Rates	Fringes
Painters:		
STRIPERS.....	\$ 21.25	6.42

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\* PAIN0005-004 03/01/2004

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS,  
MASON, PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND  
WHATCOM COUNTIES

	Rates	Fringes
Painter.....	\$ 24.36	6.41

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PAIN0005-006 07/01/2003

ADAMS, ASOTIN; BENTON AND FRANKLIN (EXCEPT HANFORD SITE);  
CHELAN, COLUMBIA, DOUGLAS, FERRY, GARFIELD, GRANT, KITTITAS,  
LINCOLN, OKANOGAN, PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA,  
WHITMAN AND YAKIMA COUNTIES

	Rates	Fringes
Painters:		
Application of Cold Tar		
Products, Epoxies,		
Polyure thanes, Acids,		
Radiation Resistant		
Material, Water and		
Sandblasting, Bridges,		
Towers, Tanks, Stacks,		
Steeple.....	\$ 19.97	6.22
Brush, Roller,		
Striping,		
Steam-cleaning and Spray....	\$ 18.97	6.22
Lead Abatement,		
Asbestos Abatement.....	\$ 19.97	6.22
TV Radio, Electrical		
Transmission Towers.....	\$ 20.72	6.22
*\$.70 shall be paid over and above the basic wage rates		
listed for work on swing stages and high work of over 30 feet.		

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PAIN0055-002 07/01/2003

CLARK, COWLITZ, KLINKITAT, PACIFIC, SKAMANIA, AND WAHIAKUM  
COUNTIES

	Rates	Fringes
Painters:		
Brush & Roller.....	\$ 17.61	6.12
High work - All work 60		
ft. or higher.....	\$ 18.36	6.12
Spray and Sandblasting.....	\$ 18.21	6.12

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PAIN0055-007 06/01/2003

CLARK, COWLITZ, KLINKITAT, SKAMANIA and WAHIAKUM COUNTIES

	Rates	Fringes
Painters:		
HIGHWAY AND PARKING LOT		
STRIPER.....	\$ 24.79	5.75

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PLAS0072-004 06/01/2003

ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY,  
FRANKLIN, GARFIELD, GRANT, KITTITAS, LINCOLN, OKANOGAN, PEND  
OREILLE, SPOKANE, STEVENS, WALLA WALLA, WHITMAN, AND YAKIMA  
COUNTIES

	Rates	Fringes
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Cement Mason  
 ZONE 1:.....\$ 22.33 7.03  
 Zone Differential (Add to Zone 1 rate): Zone 2 - \$2.00  
 BASE POINTS: Spokane, Pasco, Moses Lake, Lewiston  
 Zone 1: 0 - 45 radius miles from the main post office  
 Zone 2: Over 45 radius miles from the main post office

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 PLAS0528-001 06/01/2003

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS,  
 MASON, PACIFIC (NORTH), PIERCE, SAN JUAN, SKAGIT, SNOHOMISH,  
 THURSTON, AND WHATCOM COUNTIES

	Rates	Fringes
Cement Masons:		
CEMENT MASON.....	\$ 28.52	10.42
COMPOSITION, COLOR		
MASTIC, TROWEL		
MACHINE, GRINDER,		
POWER TOOLS, GUNNITE		
NOZZLE.....	\$ 28.77	10.42

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 PLAS0555-002 12/01/2003

CLARK, COWLITZ, KLINKITAT, PACIFIC (SOUTH), SKAMANIA, AND  
 WAHIAKUM COUNTIES

ZONE 1:

	Rates	Fringes
Cement Masons:		
CEMENT MASONS DOING		
BOTH COMPOSITION/POWER		
MACHINERY AND		
SUSPENDED/HANGING		
SCAFFOLD.....	\$ 25.96	10.50
CEMENT MASONS ON		
SUSPENDED, SWINGING		
AND/OR HANGING SCAFFOLD.....	\$ 25.50	10.50
CEMENT MASONS.....	\$ 25.04	10.50
COMPOSITION WORKERS AND		
POWER MACHINERY		
OPERATORS.....	\$ 25.50	10.50

Zone Differential (Add To Zone 1 Rates):

Zone 2 - \$0.65

Zone 3 - 1.15

Zone 4 - 1.70

Zone 5 - 2.75

BASE POINTS: BEND, CORVALLIS, EUGENE, LONGVIEW, MEDFORD,  
 PORTLAND, SALEM, THE DALLES, VANCOUVER

ZONE 1: Projects within 30 miles of the respective city hall

ZONE 2: More than 30 miles but less than 40 miles from the  
 respective city hall.

ZONE 3: More than 40 miles but less than 50 miles from the  
 respective city hall.

ZONE 4: More than 50 miles but less than 80 miles from the  
 respective city hall.

ZONE 5: More than 80 miles from the respective city hall

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 PLUM0032-002 01/01/2004

CLALLAM, KING AND JEFFERSON COUNTIES

	Rates	Fringes
Plumbers and Pipefitters.....	\$ 34.43	14.33

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 PLUM0032-003 01/01/2004

CHELAN, KITTITAS (NORTHERN TIP), DOUGLAS (NORTH), AND OKANOGAN  
 (NORTH) COUNTIES

	Rates	Fringes
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Plumbers and Pipefitters.....	\$ 26.38	11.68
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PLUM0044-003 06/01/2003		
ADAMS (NORTHERN PART), ASOTIN (CLARKSTON ONLY), FERRY (EASTERN PART), LINCOLN (EASTERN PART), PEND ORIELLE, STEVENS, SPOKANE, AND WHITMAN COUNTIES		
	Rates	Fringes
Plumbers and Pipefitters.....	\$ 26.01	10.74
-----		
* PLUM0082-001 01/01/2004		
CLARK (NORTHERN TIP INCLUDING WOODLAND), COWLITZ, GRAYS HARBOR, LEWIS, MASON (EXCLUDING NE SECTION), PACIFIC, PIERCE SKAMANIA, THURSTON AND WAHKIAKUM COUNTIES		
	Rates	Fringes
Plumbers and Pipefitters.....	\$ 30.40	13.17
-----		
* PLUM0265-003 01/01/2004		
ISLAND, SKAGIT, SNOHOMISH, SAN JUAN AND WHATCOM COUNTIES		
	Rates	Fringes
Plumbers and Pipefitters.....	\$ 30.20	13.17
-----		
PLUM0290-003 10/01/2003		
CLARK (ALL EXCLUDING NORTHERN TIP INCLUDING CITY OF WOODLAND)		
	Rates	Fringes
Plumbers and Pipefitters.....	\$ 32.53	13.28
-----		
PLUM0598-005 06/01/2003		
ADAMS (SOUTHERN PART), ASOTIN (EXCLUDING THE CITY OF CLARKSTON), BENTON, COLUMBIA, DOUGLAS (EASTERN HALF), FERRY (WESTERN PART), FRANKLIN, GARFIELD, GRANT, KITTITAS (ALL BUT NORTHERN TIP), KLINKITAT, LINCOLN (WESTERN PART), OKANOGAN (EASTERN), WALLA WALLA AND YAKIMA COUNTIES		
	Rates	Fringes
Plumber.....	\$ 30.38	14.20
-----		
* PLUM0631-001 01/01/2004		
MASON (NE SECTION), AND KITSAP COUNTIES		
	Rates	Fringes
Plumbers and Pipefitters		
All new construction,		
additions, and		
remodeling of		
commercial building		
projects such as:		
cocktail lounges and		
taverns, professional		
buildings, medical		
clinics, retail stores,		
hotels and motels,		
restaurants and fast		
food types, gasoline		
service stations, and		
car washes where the		
plumbing and mechanical		
cost of the project is		
less than \$100,000.....	\$ 20.85	4.58
All other work where		
the plumbing and		
mechanical cost of the		
project is \$100,000 and		
over.....	\$ 29.29	13.17
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TEAM0037-002 06/01/2003		

CLARK, COWLITZ, KLUCKITAT, PACIFIC (South of a straight line made by extending the north boundary line of Wahkiakum County west to the Pacific Ocean), SKAMANIA, AND WAHIAKUM COUNTIES

Rates Fringes

Truck drivers:

ZONE 1

GROUP 1.....	\$ 23.90	8.78
GROUP 2.....	\$ 24.02	8.75
GROUP 3.....	\$ 24.15	8.75
GROUP 4.....	\$ 24.41	8.75
GROUP 5.....	\$ 24.63	8.75
GROUP 6.....	\$ 24.79	8.75
GROUP 7.....	\$ 24.99	8.75

Zone Differential (Add to Zone 1 Rates):

Zone 2 - \$0.65

Zone 3 - 1.15

Zone 4 - 1.70

Zone 5 - 2.75

BASE POINTS: ASTORIA, THE DALLES, LONGVIEW AND VANCOUVER

ZONE 1: Projects within 30 miles of the respective city hall.

ZONE 2: More than 30 miles but less than 40 miles from the respective city hall.

ZONE 3: More than 40 miles but less than 50 miles from the respective city hall.

ZONE 4: More than 50 miles but less than 80 miles from the respective city hall.

ZONE 5: More than 80 miles from the respective city hall.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: A Frame or Hydra lift truck w/load bearing surface; Articulated dump truck; Battery Rebuilders; Bus or Manhaul Driver; Concrete Buggies (power operated); Concrete pump truck; Dump Trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations there of: up to and including 10 cu. yds.; Lift Jitneys, Fork Lifts (all sizes in loading, unloading and transporting material on job site); Loader and/or Leverman on Concrete Dry Batch Plant (manually operated); Pilot Car; Pickup truck; Solo Flat Bed and misc. Body Trucks, 0-10 tons; Truck Tender; Truck Mechanic Tender; Water Wagons (rated capacity) up to 3,000 gallons; Transit Mix and Wet or Dry Mix - 5 cu. yds. and under; Lubrication Man, Fuel Truck Driver, Tireman, Wash Rack, Steam Cleaner or combinations; Team Driver; Slurry Truck Driver or Leverman; Tireman

GROUP 2: Boom truck/hydra lift or retracting crane; Challenger; Dumpsters or similar equipment all sizes; Dump Trucks/articulated dumps 6 cu to 10 cu.; Flaherty Spreader Driver or Leverman; Lowbed Equipment, Flat Bed Semi-trailer or doubles transporting equipment or wet or dry materials; Lumber Carrier, Driver-Straddle Carrier (used in loading, unloading and transporting of materials on job site); Oil Distributor Driver or Leverman; Transit mix and wet or dry mix trucks: over 5 cu. yds. and including 7 cu. yds.; Vacuum trucks; Water truck/Wagons (rated capacity) over 3,000 to 5,000 gallons

GROUP 3: Ammonia nitrate distributor driver; Dump trucks, side, end and bottom dumps, including Semi Trucks and Trains or combinations thereof: over 10 cu. yds. and including 30 cu. yds. includes Articulated dump trucks; Selfpropelled street sweeper; Transit mix and wet or dry mix truck: over 7 cu yds. and including 11 cu yds.; Truck Mechanic-Welder-Body Repairman; Utility and cleanup truck; Water Wagons (rated capacity) over 5,000 to 10,000 gallons

GROUP 4: Asphalt burner; Dump Trucks, side, end and bottom  
cumps, including Semi-Trucks and Trains or combinations  
thereof: over 30 cu. yds. and including 50 cu. yds. includes  
articulated dump trucks; Fire guard; Transit Mix and Wet or  
Dry Mix Trucks, over 11 cu. yds. and including 15 cu. yds.;  
Water Wagon (rated capacity) over 10,000 gallons to 15,000  
gallons

GROUP 5: Dump Trucks, side, end and bottom dumps, including  
Semi Trucks and Trains or combinations thereof: over 50 cu.  
yds. and including 60 cu. yds. includes articulated dump  
trucks

GROUP 6: Bulk cement spreader w/o auger; Dry prebatch  
concrete mix trucks; Dump trucks, side, end and bottom dumps,  
including Semi Trucks and Trains of combinations thereof:  
over 60 cu. yds. and including 80 cu. yds., and includes  
articulated dump trucks; Skid truck

GROUP 7: Dump Trucks, side, end and bottom dumps, including  
Semi Trucks and Trains or combinations thereof: over 80 cu.  
yds. and including 100 cu. yds., includes articulated dump  
trucks; Industrial lift truck (mechanical tailgate)

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\* TEAM0174-001 06/01/2003

CLALLAM, GRAYS HARBOR, ISLAND, JEFFERSON, KING, KITSAP, LEWIS,  
MASON, PACIFIC (North of a straight line made by extending the  
north boundary line of Wahkiakum County west to the Pacific  
Ocean), PIERCE, SAN JUAN, SKAGIT, SNOHOMISH, THURSTON AND  
WHATCOM COUNTIES

	Rates	Fringes
Truck drivers:		
ZONE A:		
GROUP 1:.....	\$ 26.14	10.33
GROUP 2:.....	\$ 25.56	10.33
GROUP 3:.....	\$ 23.16	10.33
GROUP 4:.....	\$ 18.91	10.33
GROUP 5:.....	\$ 25.90	10.33

ZONE B (25-45 miles from center of listed cities\*): Add \$.70  
per hour to Zone A rates.

ZONE C (over 45 miles from centr of listed cities\*): Add  
\$1.00 per hour to Zone A rates.

\*Zone pay will be calculated from the city center of the  
following listed cities:

BELLINGHAM	CENTRALIA	RAYMOND	OLYMPIA
EVERETT	SHELTON	ANACORTES	BELLEVUE
SEATTLE	PORT ANGELES	MT. VERNON	KENT
TACOMA	PORT TOWNSEND	ABERDEEN	BREMERTON

#### TRUCK DRIVERS CLASSIFICATIONS

GROUP 1 - "A-frame or Hydralift" trucks and Boom trucks or  
similar equipment when "A" frame or "Hydralift" and Boom  
truck or similar equipment is used; Buggymobile; Bulk Cement  
Tanker; Dumpsters and similar equipment, Tournorockers,  
Tournowagon, Tournotrailer, Cat DW series, Terra Cobra, Le  
Tourneau, Westinghouse, Athye Wagon, Euclid Two and  
Four-Wheeled power tractor with trailer and similar  
top-loaded equipment transporting material: Dump Trucks,  
side, end and bottom dump, including semi-trucks and trains  
or combinations thereof with 16 yards to 30 yards capacity:  
Over 30 yards \$.15 per hour additional for each 10 yard  
increment; Explosive Truck (field mix) and similar equipment;  
Hyster Operators (handling bulk loose aggregates); Lowbed and  
Heavy Duty Trailer; Road Oil Distributor Driver; Spreader,  
Flaherty Transit mix used exclusively in heavy construction;  
Water Wagon and Tank Truck-3,000 gallons and over capacity  
GROUP 2 - Bulllifts, or similar equipment used in loading or

unloading trucks, transporting materials on job site; Dumpsters, and similar equipment, Tournorockers, Tournowagon, Turnotrailer, Cat. D.W. Series, Terra Cobra, Le Tourneau, Westinghouse, Athye wagon, Euclid two and four-wheeled power tractor with trailer and similar top-loaded equipment transporting material: Dump trucks, side, end and bottom dump, including semi-trucks and trains or combinations thereof with less than 16 yards capacity; Flatbed (Dual Rear Axle); Grease Truck, Fuel Truck, Greaser, Battery Service Man and/or Tire Service Man; Leverman and loader at bunkers and hatch plants; Oil tank transport; Scissor truck; Slurry Truck; Sno-Go and similar equipment; Swampers; Straddler Carrier (Ross, Hyster) and similar equipment; Team Driver; Tractor (small, rubber-tired) (when used within Teamster jurisdiction); Vacuum truck; Water Wagon and Tank trucks-less than 3,000 gallons capacity; Winch Truck; Wrecker, Tow truck and similar equipment

GROUP 3 - Flatbed (single rear axle); Pickup Sweeper; Pickup Truck. (Adjust Group 3 upward by \$2.00 per hour for onsite work only)

GROUP 4 - Escort or Pilot Car

GROUP 5 - Mechanic

#### HAZMAT PROJECTS

Anyone working on a HAZMAT job, where HAZMAT certification is required, shall be compensated as a premium, in addition to the classification working in as follows:

LEVEL C: +\$.25 per hour - This level uses an air purifying respirator or additional protective clothing.

LEVEL B: +\$.50 per hour - Uses same respirator protection as Level A. Supplied air line is provided in conjunction with a chemical "splash suit."

LEVEL A: +\$.75 per hour - This level utilizes a fully-encapsulated suit with a self-contained breathing apparatus or a supplied air line.

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ADAMS, ASOTIN, BENTON, CHELAN, COLUMBIA, DOUGLAS, FERRY, FRANKLIN, GARFIELD, GRANT KITTITAS, LINCOLN, OKANOGAN, PEND OREILLE, SPOKANE, STEVENS, WALLA WALLA, AND WHITMAN COUNTIES

Rates Fringes

Truck drivers: (ANYONE  
WORKING ON HAZMAT JOBS SEE  
FOOTNOTE A BELOW)

ZONE 1: (INCLUDES ALL  
OF YAKIMA COUNTY)

GROUP 1.....	\$ 17.93	9.00
GROUP 2.....	\$ 20.20	9.00
GROUP 3.....	\$ 20.70	9.00
GROUP 4.....	\$ 21.03	9.00
GROUP 5.....	\$ 21.14	9.00
GROUP 6.....	\$ 21.31	9.00
GROUP 7.....	\$ 21.84	9.00
GROUP 8.....	\$ 22.17	9.00

Zone Differential (Add to Zone 1 rate: Zone 2 - \$2.00)

BASE POINTS: Spokane, Moses Lake, Pasco, Lewiston

Zone 1: 0-45 radius miles from the main post office.

Zone 2: 45 radius miles and over from the main post office

#### TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Escort Driver or Pilot Car; Employee Haul; Power Boat Hauling Employees or Material

GROUP 2: Fish Truck; Flat Bed Truck; Fork Lift (3000 lbs. and under); Leverperson (loading trucks at bunkers); Trailer Mounted Hydro Seeder and Mulcher; Seeder & Mulcher;

Stationary Fuel Operator; Tractor (small, rubber-tired, pulling trailer or similar equipment)

GROUP 3: Auto Crane (2000 lbs. capacity); Buggy Mobile & Similar; Bulk Cement Tanks & Spreader; Dumptor (6 yds. & under); Flat Bed Truck with Hydraulic System; Fork Lift (3001-16,000 lbs.); Fuel Truck Driver, Steamcleaner & Washer; Power Operated Sweeper; Rubber-tired Tunnel Jumbo; Scissors Truck; Slurry Truck Driver; Straddle Carrier (Ross, Hyster, & similar); Tireperson; Transit Mixers & Truck Hauling Concrete (3 yd. to & including 6 yds.); Trucks, side, end, bottom & articulated end dump (3 yards to and including 6 yds.); Warehouseperson (to include shipping & receiving); Wrecker & Tow Truck

GROUP 4: A-Frame; Burner, Cutter, & Welder; Service Greaser; Trucks, side, end, bottom & articulated end dump (over 6 yards to and including 12 yds.); Truck Mounted Hydro Seeder; Warehouseperson; Water Tank truck (0-8,000 gallons)

GROUP 5: Dumptor (over 6 yds.); Lowboy (50 tons & under); Self-loading Roll Off; Semi-Truck & Trailer; Tractor with Steer Trailer; Transit Mixers and Trucks Hauling Concrete (over 6 yds. to and including 10 yds.); Trucks, side, end, bottom and end dump (over 12 yds. to & including 20 yds.); Truck-Mounted Crane (with load bearing surface either mounted or pulled, up to 14 ton); Vacuum Truck (super sucker, guzzler, etc.)

GROUP 6: Flaherty Spreader Box Driver; Flowboys; Fork Lift (over 16,000 lbs.); Dumps (Semi-end); Mechanic (Field); Semi-end Dumps; Transfer Truck & Trailer; Transit Mixers & Trucks Hauling Concrete (over 10 yds. to & including 20 yds.); Trucks, side, end, bottom and articulated end dump (over 20 yds. to & including 40 yds.); Truck and Pup; Tournarocker, DWs & similar with 2 or more 4 wheel-power tractor with trailer, gallonage or yardage scale, whichever is greater Water Tank Truck (8,001- 14,000 gallons)

GROUP 7: Oil Distributor Driver; Stringer Truck (cable operated trailer); Transit Mixers & Trucks Hauling Concrete (over 20 yds.); Truck, side, end, bottom end dump (over 40 yds. to & including 100 yds.); Truck Mounted Crane (with load bearing surface either mounted or pulled (16 through 25 tons);

GROUP 8: Prime Movers and Stinger Truck; Trucks, side, end, bottom and articulated end dump (over 100 yds.); Helicopter Pilot Hauling Employees or Materials

Footnote A - Anyone working on a HAZMAT job, where HAZMAT certification is required, shall be compensated as a premium, in addition to the classification working in as follows:

LEVEL C-D: - \$.50 PER HOUR (This is the lowest level of protection. This level may use an air purifying respirator or additional protective clothing.

LEVEL A-B: - \$1.00 PER HOUR (Uses supplied air in conjunction with a chemical splash suit or fully encapsulated suit with a self-contained breathing apparatus.

NOTE:

Trucks Pulling Equipment Trailers: shall receive \$.15/hour over applicable truck rate

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.  
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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).  
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In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

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WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
  - \* a survey underlying a wage determination
  - \* a Wage and Hour Division letter setting forth a position on a wage determination matter
  - \* a conformance (additional classification and rate) ruling
- On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION